Forest Dept.

Madras Presy.

report.

1887-88 & 1888-89

BOMBAY BRANCH
OF THE
ROYAL ASIATIC SOCIETY.
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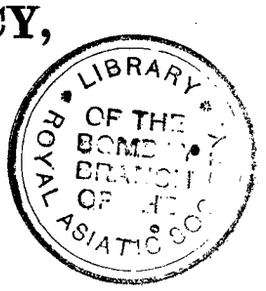
134081

THE FOREST DEPARTMENT

(SOUTHERN AND NORTHERN CIRCLES),

MADRAS PRESIDENCY,



FOR THE

OFFICIAL YEAR

1887-88.

MADRAS:
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1888.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE SOUTHERN CIRCLE, MADRAS,

FOR THE YEAR 1887-88.

By J. W. CHERRY, Esq., Acting Conservator of Forests.

CHAPTER I.

Introductory Remarks.

Colonel I. Campbell Walker was in charge of the Circle for nine months of the year. He was absent on three months' privilege leave from 24th September 1887, during which period Mr. J. W. Cherry officiated as Conservator.

Colonel Walker visited Tinnevelly, Madura, Trichinopoly, Tanjore, and Coimbatore districts, but inspection in the last named was curtailed, owing to the Collector's deputation to Coorg, the Southern charge officer's departure on privilege leave, and the Northern charge officer being engaged on demarcation in the extreme north of the district.

The inspection in Tanjore was confined to the District Forest office.

Mr. Cherry inspected the North Malabar, South Malabar, and South Canara divisions.

The inspection notes generally show, that the District officers are fully acquainted with the needs of their districts, and are doing their best to meet demands. But the pressure upon them, due in many cases to over large charges, and to so much time being required for settlement and organization, still continues to be very great, and consequently works, which might otherwise be attended to personally, are left rather too much to subordinates, and those subordinates at present, are not generally up to the standard required. Matters are improving however, and reliable subordinates are on the increase.

There is still a want of uniformity in the several District and Range offices, and there have been frequent complaints that the Forest Code provisions were not always suited to our scattered operations, and that the offices required strengthening.

With a gradual increase in the number of Divisional charges, there will be less ground for such complaints.

2. The time spent in camp by the District Forest-officers during the year is reported as follows :—

ABSTRACT A.—Movements of District Officers.

District.	Name of officer in charge.	Number of days in charge.	Number of days spent in camp.	Percentage of time spent in camp.	Reasons for absence from charge.
Chingleput	Mr. T. Muhammad Ali Sahib ..	366	195	53·3	
North Arcot	,, J. Sheffield	274	106	38·7	Privilege leave from 1st May to 31st July.
Do.	,, W. Carroll	92	53	57·6	
South Arcot	,, H. W. Bridge ..	304	160	45·3	Privilege leave from 19th March.
Do.	,, C. E. Hardie	13	..	..	
Salem	,, J. W. Cherry	221	115	52·0	Officiating Conservator.
Do.	,, W. Carroll	149	71	48·9	
Trichinopoly and Tanjore ..	,, A. W. C. Stanbrough ..	366	180	49·2	
North Coimbatore	,, W. C. Hayne	346	202	58·4	Leave from 22nd June to 11th July.
Do.	,, H. J. Porter	20	..	..	
South Coimbatore	,, H. J. Porter	339	152	44·8	Privilege leave from 5th March.
Do.	,, V. S. Gurumada Pillai ..	27	..	..	
Madura	,, C. Somers Smith	304	226	74·3	
Do.	,, H. A. Cross	62	18	29·0	Return from furlough.
Tinnevelly	,, C. E. Brasier	306	169	54·4	
North Malabar	,, R. W. Morgan	128	54	42·2	On furlough from 14th March 1887.
Do.	,, C. Eber Hardie	238	94	39·1	
South Malabar	,, G. Hadfield	366	155	42·3	
South Canara	,, T. P. Poake	366	155	42·3	

The average time in camp, was about half the time in charge.

Mr. Somers Smith exceeded the average considerably. The Officers of North and South Malabar divisions do not, from the nature of their charges, require to spend such long periods away from head-quarters as other District Forest-officers do.

CHAPTER II.

AREAS AND BOUNDARIES.

3. *Areas.*—The following abstract exhibits, in the form required by the Government of India, the changes that took place during the year in the various classes of State forests :—

ABSTRACT B.—Classes of Forest.

Class of forests.	Area on 31st March 1887.	Added during the year 1887-88.	Excluded during the year 1887-88.	Difference.	Area on 31st March 1888.	Source or cause of increase or decrease.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
A. Reserved Forests under Act V.	1,838	564	..	+ 564	2,402	560 square miles from D ; 4 square miles due to rectification of areas by actual survey.
B. Reserved Forests under previous rules.	280	..	36.	— 36	244	35 square miles to D ; 1 square mile due to rectification of areas.
C. Leased Forests	..	..	..	..	..	
D. Reserved Lands ..	3,655	2,088	590	+ 1,498	5,153	35 square miles from B ; 15 square miles from E ; 1,209 square miles from F ; 829 square miles added by rectification of areas. 560 square miles to A; 30 square miles deducted by rectification of areas
E. Other Forests	1,099	166	15	+ 151	1,250	166 square miles from F; 15 square miles to D.
F. Unclassed Forests and waste lands.	..	..	..	..	..	
Total ..	6,872	2,818	641	+ 2,177	9,049	

The large additions to D. Reserved Lands, by rectification of areas, is due to a more careful estimate of the large blocks notified in North Coimbatore. The deductions under the same head, are chiefly due to exclusion of areas during settlement. Leased

Forests have not been separately classified in this office hitherto, but are included in other classes as follows ;—

Under A. Reserved Forests—				
Tekkadi—South Coimbatore	26	square miles	under section	25
Nellikutta—South Malabar	3	do.	do.	25.
Under D. Reserved Lands—				
Nine blocks at Nilambúr—South Malabar.	17	do.	do.	4.
Total leased ...	46	square miles.		

Though the Forest Act provides for Leased Forests being declared Reserved Lands or the rules of Reserved Forests being applied to them, the Acting Conservator is not sure that they can be classed as declared "Reserved Forest" under Chapter II of the Act.

4. As regards the following classes—

B Reserved Forests under previous rules.
E Other Forests.
F Unclassed Forests, and waste lands,

there has been some confusion. The Government, in their review on last year's Report, treated all under B. and E, as forest under the control of this department, while the Government of India, in their review of the previous year, treated the former as "Reserved Forests." As a matter of fact, both are merely forests of which some account or record has been taken, with view to early proposals for reservation, and they should properly belong to class F. "Unclassed Forests and waste lands," or, as considered in our books, merely "Unreserved lands." Of such unclassed or "Unreserved Lands," we have no sufficiently correct estimate of what portion is covered with forest—neither can it be shown this year what extent is likely to be brought under reservation. It is hoped that fairly correct figures may be obtained for the next Report.

5. In the meantime, the following abstract exhibits the district areas, the extent of occupied lands, and the proportion of existing reserves to unoccupied land. The extent of cultivation (column 3) is made up of known patta cultivation, and a proportion for private estates—where not known. The figures for private forests (column 4), are taken from an estimate prepared in 1886 for the Government of India.

The figures for Government forests (column 6), with the exception of Salem, are made up of existing reserves, and all areas that, at present, are noted for reservation. Excepting Salem, they do not represent, as intended, the whole extent of forest-covered-land at the disposal of Government.

The Salem figures are fairly correct, and if we apply the Salem proportion to the whole, the totals of columns 6 and 7 would be 15,600 of "Forest," and 12,000 of "Bare," which is nearer the mark. The district figures in these two columns, it is hoped, will be rectified next year.

ABSTRACT C.—District Areas, and Forest Reserves, in square miles.

District.	District survey'd area, as per Board's Proceedings, dated 11th February 1885, No. 64.	District area, how composed				
		Occupied land of all classes			Unoccupied, or lands at the disposal of Government.	
		Cultivated.	Uncultivated.			
			Forest.	Bare.	Forest.	Bare.
1	2	3	4	5	6	7
Chingleput	2,842	1,067	25	533	210	1,004
North Arcot	7,497	1,802	1,000	1,897	911	1,887
South Arcot	5,140	2,037	153	..	1,068	1,882
Salem	7,724	2,683	508	600	2,226	1,707
Trichinopoly	4,732	2,161	237	1,082	326	926
Tanjore	3,654	1,970	10	1,005	60	609
Coimbatore	7,860	3,504	21	335	2,518	1,482
Madura	8,658	2,821	500	3,608	692	1,037
Tinnevelly	5,387	2,692	131	1,110	607	847
Malabar	5,584	1,218	27	..	853	3,486
South Canara	3,902	548	88	4	1,020	2,242
Total ..	62,980	22,503	2,700	10,177	10,491	17,109

	Lands at the disposal of Government, how classed.				Total of forest reserves.	Percentage of forest reserve to district area (Col. 2).	Percentage of forest reserve to land at the disposal of Government (Cols. 6+7).
	Unreserved lands.	Reserved lands.	Reserved lands under settlement.	Reserved forests.			
	8	9	10	11	12	13	14
Chingleput	1,076	24	26	88	138	4·9	11·4
North Arcot	1,936	179	488	195	862	11·5	30·8
South Arcot	2,716	..	172	62	234	4·6	7·9
Salem	2,923	202	248	560	1,010	13·1	25·7
Trichinopoly	1,017	56	135	44	235	4·9	18·8
Tanjore	650	..	19	..	19	·5	2·8
Coimbatore	1,484	1,381	470	665	2,516	32·0	62·9
Madura	1,164	75	187	303	565	6·5	32·7
Tinnevelly	865	..	302	287	589	10·9	40·5
Malabar	3,972	48	162	157	367	6·6	8·5
South Canara	2,242	886	93	41	1,020	26·1	31·3
Total ..	20,045	2,851	2,302	2,402	7,555	12·0	27·5

From the above abstracts it will be seen, that we have added during the year 564 square miles of Reserved Forest, and 1,498 square miles of Reserved Lands, bringing the total "Reserves" up to 7,555 square miles, which is 12 per cent. of the district areas, and 27 per cent. of the "lands at the disposal of Government." This is an improvement on last year, when only 464 square miles of both classes of reserves were added.

Coimbatore shows a proportion far in advance of the other districts, but this is due to almost entire taluks in the Northern Division, being placed under Reserved Lands, pending selection of compact blocks for more perfect reservation.

It is probable, as far as can be judged at present, that, for the whole Circle, the proportion of reserves when completed, will reach 10,000 square miles, or about 16 per cent. of district areas, which will be about 36 per cent. of the present land at the disposal of Government, and about 64 per cent. of a revised estimate of the forest-clad portion of it.

It has not been decided to work up to any particular proportion, but it will be seen that the districts of Coimbatore, and Tinnevelly, have already exceeded 36 per cent. of the land at Government disposal, while Madura, South Canara, North Arcot, and Salem, are not far behind. Chingleput, South Arcot, Tanjore, and Malabar, have still much to make up.

6. *Reserved Forests* (*see Appendix* 59-*A*).—The area constituted Reserved Forests up to date, is as follows:—

ABSTRACT D.—Reserved Forests (see appendix 59-A) in square miles.

Districts.	Up to 1886-87.	During 1886-87.	During 1887-88.	Total.
Chingleput	27·45	36·51	23·84	87·80
North Arcot	194·55	..	·07	194·62
South Arcot	2·75	..	59 08	61·83
Salem	..	171·96	387·85	559·81
Trichinopoly	5·20	26·21	13·10	44·51
Tanjore	..	..	·03	·03
North Coimbatore	23 70	74·99	..	98·69
South Coimbatore	565·91	..	..	565·91
Madura	284·37	2·61	16·00	302·98
Tinnevelly	286·81	..	..	286·81
North Malabar	118·44	..	..	118·44
South Malabar	15·56	..	23·76	39·32
South Canara	1·38	..	40·00	41·38
Total ..	1,526·12	312·28	563·73	2,402·13

The total area of "Reserved Forests," is now 3·81 of the district surveyed areas. By far the largest addition in this class, was made in the Salem district. In other districts, areas are being settled, and remarks showing progress will be found in the next para.

7. *Reserved Lands under settlement (included in Appendix 59-D.)*—The following abstract shows the progress of settlement up to the end of the year, in blocks and square miles:—

ABSTRACT E.—Forest Settlement.

District.	Under settlement up to 1886-87.		Added during 1886-87.		Added during 1887-88.		Total under settlement.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
1	2	3	4	5	6	7	8	9
Chingleput	14	87	6	11	10	15	30	113
North Arcot	36	269	1	100	46	314	83	683
South Arcot	33	191	19	29	18	14	70	234
Salem	74	674	2	23	18	111	94	808
Trichinopoly	24	50	17	129	..	..	41	179
Tanjore	1	..	2	7	17	12	20	19
North Coimbatore	6	99	..	..	2	470	8	569
South Coimbatore	9	566	..	..	..	..	9	566
Madura	68	287	8	95	14	108	90	490
Tinnevelly	10	539	..	..	29	50	39	589
North Malabar	12	261	1	..	..	..	13	261
South Malabar	6	40	..	..	10	19	16	59
South Canara	11	73	9	33	1	28	21	134
Total ..	304	3,136	65	427	165	1,141	534	4,704

	Finally settled up to 1886-87.		Finally settled during 1886-87.		Finally settled during 1887-88.		Total finally settled.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	10	11	12	13	14	15	16	17
Chingleput	5	27	6	36	3	24	14	87
North Arcot	33	195	..	..	..	..	33	195
South Arcot	1	3	..	..	13	59	14	62
Salem	..	..	25	172	37	388	62	560
Trichinopoly	9	5	5	26	7	13	21	44
Tanjore	..	..	..	..	2	..	2	..
North Coimbatore	5	24	1	75	..	..	6	99
South Coimbatore	9	566	..	..	..	..	9	566
Madura	60	284	8	3	3	16	71	303
Tinnevelly	5	287	..	..	..	..	5	287
North Malabar	6	118	..	..	..	..	6	118
South Malabar	5	16	..	..	1	24	6	40
South Canara	6	1	..	..	2	40	8	41
Total ..	144	1,526	45	312	68	564	257	2,402

The progress of the balance still under settlement is shown in the following abstract:—

ABSTRACT F.—State of Settlement Balance.

District.	Of those notified in 1884-85.		Of those notified in 1885-86.		Of those notified in 1886-87.		Of those notified in 1887-88.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
1	2	3	4	5	6	7	8	9
Chingleput	..	..	..	..	6	11	10	15
North Arcot	..	..	..	..	4	174	46	314
South Arcot	..	..	19	129	19	29	18	14
Salem	11	107	1	15	2	15	18	111
Trichinopoly	..	..	..	..	20	135	..	..
Tanjore	..	..	..	..	1	7	17	12
North Coimbatore	..	..	..	..	..	..	2	470
South Coimbatore	..	..	..	..	..	..	..	..
Madura	..	..	..	..	5	79	14	108
Tinnevelly	..	..	5	252	..	..	29	50
North Malabar	3	103	3	40	1	..	..	..
South Malabar	..	..	..	..	..	..	10	19
South Canara	..	..	3	35	9	30	1	28
Total ..	14	210	31	471	67	480	165	1,141

	Total balance.		Remarks on the balance.					
			Settled and reported on.		Settled but not reported on.		Settlement proceeding.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	10	11	12	13	14	15	16	17
Chingleput	16	26	9	15	..	..	7	11
North Arcot	50	488	4	174	15	168	31	146
South Arcot	56	172	33	143	5	15	18	14
Salem	32	248	10	101	4	36	18	111
Trichinopoly	20	135	9	56	11	79	..	..
Tanjore	18	19	14	7	4	12	..	..
North Coimbatore	2	470	..	..	..	..	2	470
South Coimbatore	..	..	..	..	..	..	..	..
Madura	19	187	3	41	15	136	1	10
Tinnevelly	34	302	5	252	27	47	2	3
North Malabar	7	143	..	..	7	143	..	..
South Malabar	10	19	..	..	..	..	10	19
South Canara	13	93	4	5	7	48	2	40
Total ..	277	2,302	91	794	95	684	91	824

From the above abstracts it will be seen that 1,141 square miles were put under settlement, as against 427 in the previous year, and that 564 were finally settled, as against 312 in the previous year, showing a marked improvement in the progress towards Reserved Forests.

Of the balance, 2,302 square miles, awaiting final settlement, it will be seen that 794 have been practically settled and reported on, and were merely awaiting Government sanction to notifications. This leaves 1,508 square miles under settlement, of which 684 have been settled as far as the Settlement-officers are concerned, but have not been reported on, pending limit of appeal time, or disposal of appeals in the higher courts.

There were, therefore, only 824 square miles in the hands of Settlement-officers at the end of the year, and if to these we propose and add for settlement, all the present remaining Reserved Lands, viz., 2,851 square miles, we shall still have 3,675 square miles of work for Settlement-officers to do, which, at the present rate of say 500 square miles a year, will occupy them for seven years. As however, the outturn of work is yearly improving, the Acting Conservator thinks he may estimate five years more to complete settlement of all present Reserved Lands.

The Special Settlement-officers were Deputy Collector Mr. A. M. Jones, who had settlement in North Arcot, South Arcot, Salem, Trichinopoly and Tanjore, representing

1,522 square miles; and Deputy Collector Mr. A. Pinto, who had settlement in Chingleput, Madura, Tinnevelly and Coimbatore, representing 1,025 square miles.

In Malabar the 186 square miles under settlement during the year, and in South Canara the 133 square miles, were entrusted to Revenue divisional officers.

It will be noted from abstract F, that 210 square miles put under settlement as far back as 1884-85, and 471 square miles in 1885-86, still await disposal. This is due to disputes in Civil Courts, and appeals against Forest Settlement officers' orders.

The latter reason is due to the High Court's recent ruling, permitting an appeal from the District Court under section 10 of the Act. This causes great delay in final settlement, but secures a more thorough investigation, which, in many cases, was desirable in the interests of Government.

The following important appeals from District Courts' decisions, were among those awaiting disposal at the end of the year :—

Districts.	Forests.	District Courts' decision.	Estimated value of property.
			RS.
Salem	Periakalroyen hills ...	In favor of Government ...	3,00,000
North Malabar ...	Padri	Adverse to Government ...	1,00,000
	Do.	Do. ...	35,000
	Kanot	Do. ...	3,00,000
	Peria	Do. ...	3,00,000

The Special Settlement-officers have worked diligently; and Forest-officers attending, have, considering the complex nature of many of the claims, and the little legal knowledge and assistance they have had, done remarkably well in defending the rights of Government.

8. *Reserved lands not under settlement (included in Appendix* 59-*D*).—The following abstract shows the additions and transfers in this class of Reserved Lands. It is thought wise to separate them from those under settlement (dealt with under the preceding head), for they form the first step towards constitution of Reserved Forests (all forests being declared "Reserved Lands" either before or at the time of putting them under settlement), and it is easier to note the progress made in this initiatory stage.

The balance area under this abstract, added to the balance area of the previous one, make up the total area balance of Reserved Lands, as shown in the appendix 59-D.

ABSTRACT G.—Reserved lands not under settlement (included in Appendix 59-D) in square miles.

District.	Up to 1886-87.	Added during 1886-87.	Added during 1887-88.	Total.	Transferred to settlement up to 1886-87.	During 1886-87.	During 1887-88.	Total.	Balance remaining as simple reserved lands.
Chingleput	112	11	14	137	88	11	15	114	23
North Arcot ..	717	102	42	861	269	100	314	683	178
South Arcot ..	191	29	14	234	191	29	14	234	..
Salem	861	27	122	1,010	674	23	111	808	202
Trichinopoly ..	37	163	35	235	50	129	..	179	56
Tanjore	7	..	12	19	..	7	12	19	..
North Coimbatore ..	1,108	..	824	1,932	99	..	470	569	1,363
South Coimbatore ..	584	..	..	584	566	..	..	566	18
Madura	418	93	54	565	287	95	108	490	75
Tinnevelly	604	..	— 13	591	539	..	50	589	2
North Malabar ..	277	4	..	281	261	..	..	261	20
South Malabar ..	40	..	46	86	39	..	19	58	28
South Canara ..	77	33	910	1,020	73	33	28	134	886
Total ..	5,033	462	2,060	7,555	3,136	427	1,141	4,704	2,851

It will be seen from the above abstract, that 2,060 square miles of "Reserved Land" were added during the year, as against 462 last year, showing improvement in progress under this head also. North Coimbatore and South Canara were the

most active in bringing areas under protection as Reserved Lands, but the boundaries given were very general ones, and there will be considerable differences found in the areas when we come to select from them for Reserved Forests. In South Coimbatore, and in North Malabar alone, no fresh reserves were notified. In the former it is not likely that any fresh selections will be made, but in the latter we have two or three more in view, including the best of the sholas on the Brammaghiri hills which need protection.

It still remains a question whether, after completion of "Reserved Forest" selections, the remaining reserved lands will be treated as a separate class. It is not improbable that they, together with other areas from unreserved lands, will be set apart as village forests. Our chief concern at present is with the areas to be established as State "Reserved Forests."

9. *Unreserved land—(includes the forests shown in Appendices 59-B and 59-E).*—Abstract C shows the area of Unreserved lands (that is, lands not reserved, and remaining at the disposal of Government) to be 20,045 square miles, and the remarks with that abstract will show, that of this area, we may consider that 8,100 square miles (that is, the probable revised estimate of 15,600 total Government forests, less 7,555 already reserved) are covered with forest (including scrub, which, if protected, would develop into forest), and it remains to be seen how much of this unreserved balance of Government forest will yet be brought under reservation.

According to Appendices 59-B and E, we have still remaining of forests recorded for reservation, 1,494 square miles in the following districts:—

Chingleput	18·25
South Arcot	834·05
Trichinopoly	·76
Tanjore	9·50
South Coimbatore	2·05
Madura	127·48
Tinnevelly	16·91
North Malabar	335·00
South Malabar	150·23
Total ...	1,494·23

But it has been previously stated that these two appendices are misleading, and should be discontinued.

The figures are obviously wrong, and in many cases merely represent the balance of areas which it was *originally intended* to propose, and from which reserves have since been selected and disposed of. Salem is not mentioned at all, though the District Forest-officer reports about 250 more square miles to be selected (bringing the total close up to the area required in that district for reservation, as estimated in Mr. Cherry's special report recorded in G.O., No. 668, dated 23rd May 1884), and in North Malabar the 335 square miles shown, cannot be now easily identified.

In South Arcot, many proposals have recently been submitted, some of which were returned for a rectification of boundaries, which were found to be too intricate. The area of 150 square miles in South Malabar represents the recent purchase by Government of the valuable Amarapolliem estate for Rs. 42,000, which is expected to prove a very important addition to our reserves, and will be notified as soon as possible.

It is only necesary to add, that selections were proceeding in all districts, and are now approaching completion, the Collectors of North Arcot and South Canara having lately reported that they do not propose any further additions. It must be observed, however, that in some districts, notably Salem, South Canara, and Malabar, it may be necessary to supplement present reserves, in the event of certain appeals being decided against Government.

10. *Boundaries.*—The Revised allotment for the year was Rs. 15,628, of which Rs. 11,623 was spent on 1,701 miles of boundary. The short expenditure was chiefly in North Malabar and North Coimbatore; in the former it was due to reserves awaiting

result of appeals, and in the latter to selections not proceeding as fast as was anticipated. The following lengths taken in hand, are reported :—

	Miles.	Cost. Rs.	Average cost. Rs. A. P.
Up to 1886-87	3,178	35,247	11 1 5
During 1886-87	1,134	8,735	7 11 2
„ 1887-88	1,701	11,613	6 13 2
Total ...	6,013	55,595	9 3 11

District Forest-officers have not, with one or two exceptions, given the entire lengths of all their reserve boundaries, so that what has still to be demarcated cannot be shown. By an estimate based on averages in the Salem district, the Acting Conservator finds that roughly, close on 10,000 miles of existing reserve boundaries have still to be attended to. North Arcot takes the lead this year in the number of miles demarcated, closely followed by Salem,—North Coimbatore and Madura coming next.

A larger total sum on a longer total length of line was spent, than in the last year, and the average cost was reduced ; but the Acting Conservator is not satisfied with the progress of this very important work, or in the way in which it has generally been done. It has, as a rule, been left too much to subordinates, and the consequence is, some unreasonable, tortuous, and badly demarcated lines, while separate accounts for the several localities have been so seldom correctly kept, that it is impossible, from the District Forest officers' figures (with one or two exceptions), to arrive at reliable figures as to the length of line or expenditure thereon.

The estimate of the length of boundaries is constantly varying. Some lines are merely demarcated (with flags, cairns, pillars, cut stones, &c., as the case may be), while others are cleared at the same time, and in some, demarcation has had to be renewed, while *all* will have to be cleared periodically. Again, some District Forest-officers have included cost of laying and maintaining reserve *interior* lines, as also other casual lines which have nothing to do with reserves, for both of which, accounts should have been kept separately. These difficulties are receiving attention, and the Acting Conservator hopes the figures under this head will become more exact each year. In the meantime, a uniform system of marking and recording forest boundaries is now being discussed and decided on.

In Chingleput—48,260 palmyrahs were planted during the year along about 13 miles of reserve boundaries.

In Salem—The Government claimed forest boundary of the Vellaikuttar Jaghire, was recleared. Sixteen out of 18 owners of private forest cleared their boundary under orders.

In Trichinopoly—The ryots of patta fields adjoining Government forests in the Udayárpálaiyam range, undertook gratis, a rough demarcation of 14 reserved lands, by clearing a path all round, and planting banyan cuttings along it.

In Tanjore—The boundaries of all the blocks notified under settlement, were demarcated with stones by the Madras Revenue Survey Department.

In South Coimbatore—Demarcation was tried in certain ranges, by planting cuttings of the Kiluvai tree (*Proteum caudatum*), and piling a heap of stones around the base. It is reported that in several places the cuttings have taken root, and that the plan is fairly successful.

Patta holdings in three villages in Reserved Forests were demarcated during the year. Towards the latter part of the year, the District Forest-officer (Mr. Porter) with Mr. Bensley (on behalf of the Travancore Government), completed the clearing and demarcation of the Coimbatore-Travancore boundary line, and submitted a full report.

In Madura—A great deal of clearing of boundaries was done for the Government of India Survey Party. Two Surveyors were specially deputed to assist, and to instruct the Forest subordinates.

In all the above, as well as the other districts, the most general form of demarcation has been by pillars, consisting of posts surrounded by cairns of stones or earth, the lines being afterwards cleared in various ways, and various breadths.

CHAPTER III.

SURVEYS, WORKING PLANS, AND ANNUAL PLANS OF OPERATIONS.

11. The sum provided in the Revised estimate was Rs. 7,669 of which Rs. 5,864, was spent. The short expenditure was chiefly in South Arcot and Malabar, owing to the delay in reserve settlement.

Surveys.—Proposals for arrangement of a Special Forest Survey Branch have more than once been under discussion during the year, but owing to the paucity of Forest-officers, no practical conclusions were arrived at.

Since the close of the year however, it has been proposed, in conference with the Revenue Secretary and the Surveyor-General to the Government of India, to employ the Survey of India Party, now on general survey in this Circle, exclusively on Forest surveys.

If this is done, our survey progress will be rapid, and we shall have enough to do to keep pace in preparing our reserves for the survey. In the meantime, the above-mentioned Survey Party has been assisting us, when convenient to them in connection with their general work, and up to the end of the year had completed the following for our reserves :—

In Madura—Topography on the one-inch scale (including overlaps) of 245 square miles.

Topography on the four-inch scale (including overlaps) of 8 square miles.

Mostly in Tinnevelly—Triangulation in advance, of 1,000 square miles.

With the exception of three reserves in Madura, no boundary traverses. were completed. No maps have yet been furnished.

Quite recently, a bill from the Government of India was received for Rs. 11,000, to be included for the above survey work in our accounts for the year. No details were given, and as it appeared to include cost of surveying for the Travancore boundary, further information has been called for, pending which, the amount is not shown in the Examiner's summary of expenditure for the year.

There has been some confusion and misunderstanding as regards the forest work of this Survey Party, owing to its not being clearly understood from whom the Superintendent of the party should take his instructions.

Colonel Walker appears to have asked for one-inch surveys for *general* use, and four-inch for *special* use (working plans, &c.;), probably thinking, that the one-inch topographical survey would be included in the general work of that class, which the party were primarily sent to complete in this Presidency, and which would (except the reserve boundary traverses) not be charged to this department. As it is, the party have only taken up one reserve on the four-inch scale, and the rest are all on the one-inch scale. These matters are being considered, and a clear programme will be arranged for the party from this office in future.

12. The surveys by Forest-officers, assisted by one temporary surveyor in each of the districts of Salem, Trichinopoly, Tanjore, South Coimbatore and South Canara, were as follows :—

In Chingleput—The southern portion of the Kambakam hill reserve boundary was continued, but the progress was slow, owing to the ill-health of the Forester engaged on the work.

In Salem—The boundary survey of four Reserved Forests, covering an area of 12·61 square miles, with an outline of 32 miles, was completed.

In Trichinopoly—The outline of 5 reserves, embracing an area of 9·86 square miles, was completed.

In Tanjore—The Vettangudi reserve, 3 square miles, was surveyed.

In South Coimbatore—3·73 square miles of forests on the plains in No. II, Pollachi range, were surveyed, and divided into four blocks and 14 compartments for the purpose of working plans.

In Tinnevelly—The survey of a block of forest (area 3·73 square miles) in the Pápanásam hills was commenced. A chain survey of a small area of ·85 square miles in the Kudiraimalai Teri was also made.

In South Canara—Plane table and compass rough surveys were being made of the reserved lands selected for settlement.

No great confidence can be placed on these haphazard surveys. There is a want of uniformity and completeness about them, and the men employed are not always sufficiently qualified.

The areas reported as surveyed up to the end of the year are as follows:—

	SQ. MILES.	Cost. RS.	Average per square mile. RS. A. P.
Up to 1886-87	1,130	3,387	2 15 11
During 1886-87	32	2,727	85 3 6
Do. 1887-88	117	5,864	50 1 11
Total ...	1,279	11,978	9 6 0

Deducting the total area surveyed, from 7,555 square miles (the whole area of our existing reserves), shows that we have still over 6,000 square miles of existing reserves to be surveyed.

The District Forest-officers give no particulars of the details already surveyed, but the low average would show, that most of the surveys are merely boundary traverses, and do not include topographical features.

A complete Forest Atlas for the Circle showing Reserved Forests, proposed Reserved Forests, and Reserved Lands, was prepared during the year.

13. *Working Plans.*—For anything like satisfactory working plans, it is necessary that reserves should first be settled and surveyed, to be followed by a careful division into compartments, and the existing stock enumerated and valued, all of which preliminaries take considerable time.

Our principal delay at present is due to want of surveys, and to so much of the time of the establishment being taken up still with organization, selection, and settlement.

Even at the best, it is not thought possible for District Forest-officers alone, to prepare their working plans, and so soon as the controlling grades are strong enough, proposals will be made for a special working plan branch.

In the meantime, the working of reserved areas is being brought more under control and system generally, and the people are being encouraged, for the present, to resort to unreserved areas as much as possible.

In Chingleput, experimental fellings were made in the Kambakam and Ambakam Reserves, and in the Meyúr plantation, mainly in connection with data for preparation of plans.

Pulrambakam and Tandarai reserved forests were divided into compartments.

In North Arcot, the provisions of the working plan, for the plantations referred to in the last Annual Report, were observed as far as possible. Endeavours were being made by the District Forest-officer to give effect to the Conservator's suggestions regarding the formation of the Mámandúr and Ambúr working circles.

Stock was taken of 11,927 sandalwood trees on the Javadis, making in all 17,769 trees counted up to the end of the year.

About one-third of the Pullapanád was thus finished, and the work was still being pushed on.

In Salem, the felling provided for in the Morur working plan was given on contract, but the work was not completed at the end of the year, owing to the unhealthiness of the locality, and the consequent difficulty of procuring labor.

A preliminary working plan for the Vadagampatti portion of the Kanavoipudúr Reserve was prepared by the District Forest-officer under orders, but the Acting Conservator thinks that there is little use in preparing a separate working plan for so small an area, which will eventually form a mere compartment of a larger area when settlement is more complete.

In Trichinopoly, the fellings in the Cauvery South Bank plantation were regulated during the year, in accordance with the preliminary working plan approved by the Board of Revenue in their Proceedings, dated 16th July 1887, Forest No. 396, and also by Government. The outturn is satisfactory, being 146 tons realizing Rs. 502, as against 164 tons for Rs. 492 in the estimate.

The District Forest-officer (Mr. Stanbrough) has matured another working plan for the hill forests of the Manapárai sub-division. Its area is about 21 square miles, and its provisions will be considered during the current year.

In South Coimbatore, preliminary working plans for the Chinnar working circle and the Nóyil-Vellengiri working circle, in the Bolampatti range, were forwarded to Government.

The result of the year's felling in the Sholakarai block, compared with the working plan, showed that the I. Fuel, and the bamboo series, were up to the estimate, but that the outturn in the II. Fuel series was not so good, and that the yield altogether was equal to about Rs. 2-2-0 net per acre per annum.

In Madura, Mr. Somers Smith submitted working plans for Gundan shola, and the other plantations at Kodaikánal, but the Conservator had to return them for revision, as also the working plan for Alagar hill reserved forest, which could not be accepted owing to serious errors in areas, &c.

In South Malabar, the proposed working plan of the Wálayár Fuel Reserve was still delayed for want of information regarding the correct areas of the compartments.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

Section 1.—Reserved Forests.

Section 2.—Other Forests.

(a) Establishment Ranges and Beats.

14. The sanctioned establishment for the Circle consisted of—

—	For the year 1886-87.	For the year 1887-88.	Difference.
Permanent.			
Conservators	1	1	..
Deputy Conservators	8	7	— 1
Assistant do.	5	6	+ 1
Sub-Assistant do.	7	6	— 1
Rangers	30	30	..
Foresters	73	73	..
Forest guards	357	359	+ 2
Clerks	54	88	+ 34
Peons	75	108	+ 33
Temporary.			
Supervisors	34	51	+ 17
Surveyors	1	6	+ 5
Draughtsmen	..	2	+ 2
Depôt-keepers	11	11	..
Watchers	274	649	+ 375
Tannahdars	324	307	— 17
Lascars	4	23	+ 19
Gardeners	16	96	+ 80
Clerks	41	7	— 34
Peons	51	18	— 33
Total Officers ..	1,366	1,848	+ 482

There was also a large establishment of Permit Issuing and Recovering officers, who were paid commission on collections, and who are not shown in the above list.

The Conservator's charge was 13 Divisions of 62,980 square miles of area, including 7,555 square miles of reserves. A District Forest-officer's average charge was 4,845 square miles of area, including 581 square miles of reserves. A Range officer's average charge was 913 square miles of area, including 109 square miles of reserves, and a Forest guard's charge was 175 square miles of area, including 21 square miles of reserves.

Thirty-nine out of the 69 forest ranges were in the charge of Foresters, for want of sufficient Forest Rangers, and this was a constant ground for complaint from the District Forest-officers.

The only additions to our Permanent field establishment during the last five years has been—

1 Controlling officer,	10 Foresters,
2 Sub-Assistants,	37 Guards,

although almost the whole of our 7,555 square miles of "reserves" have been brought into existence during that period, and though our revenue collections have risen from Rs. 5,45,658 to 8,10,197. The consequence has been an extension of the Temporary establishment.

Both the Madras Government and the Government of India, have recently considered the much needed extension of our Permanent, controlling, executive, and protective staff, and favorable proposals have been made.

(b) General Protection and Breaches of Forest Laws (Appendix 63).

15. That protection is improving, may be gathered from the increase of revenue under permit collections, from the improvement in the growth of forest reserves—as vouched for by all District Forest-officers,—and from the figures for forest offences detected and reported.

ABSTRACT H.—Forest offences (see Appendix 63).

Years.	Brought forward from previous year.		Cases added.		Cases disposed of							Balance.	
	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Percentage of cases withdrawn.	Percentage of cases compounded.	Amount realized.	Percentage of cases acquitted.	Percentage of cases convicted.	Cases.	Persons.
									Rs.				
1886-87 ..	94	..	1,339	..	1,277	2,754	..	36	2,350	19	45	156	..
1887-88 ..	156	..	1,644	..	1,627	4,305	1	36	3,271	14	49	173	..

The percentage of cases compounded, as compared with last year is the same. The percentage of convictions, for those tried by the Magistracy, which was 45 out of the 64 per cent. last year, has risen to 49 out of the 63 per cent. this year. The offences compounded by Forest officers realized Rs. 3,271, or an average of Rs. 2-1-3 per person accused, as against Rs. 3-0-6 per accused in the previous year, showing also an average *per case* of Rs. 5-10-1 against Rs. 5-1-9.

The largest number of cases is reported from Salem and Trichinopoly, due in the former chiefly to an increase during the year of the number of reserve watchers employed.

(c) Forest Fires and Fire-protection (Appendix 62).

16. The Revised Budget allotment for the year was Rs. 24,820. The actual expenditure amounted to Rs. 20,712. The short expenditure was chiefly in South Arcot, Salem and Madura, due to a smaller addition to the specially-protected area than was anticipated.

An endeavour is made to show the result of fire-protection in the following abstract. There has been much confusion in previous figures, and it is thought best to now deal only with the areas in our *reserves*.

It may be taken for granted, that all areas not reserved, are burnt over every year. As a matter of fact in our reserves all areas are more or less protected from fire, the majority, with the ordinary establishment, aided by sundry warnings and penalties; and a portion, by special expenditure on fire traces and extra establishment during the dry season. The two classes are therefore shown separately in the abstract. As a rule, no expenditure is allowed on areas that are not formally brought on No. 62 Return as fire-traced and specially protected; but some District Forest-officers have been in the habit of incurring expenditure on rewards and fire-watchers for the larger and general class of areas, and charging them to the specially-protected portion. In future, if such expenditure is incurred, it should be shown under its proper class.

This abstract is satisfactory as far as it goes, but it gives no idea of how long any *particular* area or proportion has escaped fire.

This can be shown in future, by bracketing together, before the general percentage which escaped, the percentage of areas which have escaped for one year, for two years, for three years, and so on; but these particular percentages can only be found by a system of fire-record maps, concerning which, the Acting Conservator has already given some attention, and a note from the Inspector-General on the subject will be found recorded in Revenue Board's Proceedings, No. 525, of 15th September 1887. These record maps can only be properly prepared, after the reserves have been surveyed.

ABSTRACT I.—Fire-protection (see Appendix 62) in square miles.

	Up to 1886-87.		During 1886-87.			During 1887-88.			Total cost per square mile.
	Forest reserves attempted	Total cost per square mile.	Attempted.	Percentage which escaped.	Average cost per square mile.	Attempted.	Percentage which escaped.	Average cost per square mile.	
Fire-traced ..	906	48	1,081	96	16	1,250	99	16	65
Untraced	4,127	..	4,414	57	..	6,305	69	..	..
Total reserved ..	5,033	..	5,495	..	..	7,555	..	..	..

From the above it will be seen, that almost the same addition (169 square miles) was made to the fire-traced area as in last year (all the districts except Salem, Tanjore and North Coimbatore contributing), and that the average cost per square mile of the area successfully protected, did not vary; while the percentage of successful area increased from 96 to 99 per cent.

The largest percentage of fires occurred in North Malabar, followed by Tinnevelly. No fires are reported in Salem, South Coimbatore and South Malabar. As regards untraced areas, the figures are roughly approximate, and if District Forest-officers' estimates are to be relied on, they show that we have improved the general protection from 57 per cent. of successes during 1886-87, to 69 per cent. during the year under report.

The Acting Conservator urges the importance of so selecting and marking reserve boundaries, that the lines may also prove suitable for the fire-tracing. In too many cases there will be required a cleared fire trace as well as a cleared boundary, which at least entails double expenditure.

(*d*) *Grazing.*

17. The Revised revenue estimate was Rs. 31,875, but Rs. 46,038 was actually collected, showing an improvement of Rs. 14,163 over the estimate, and of Rs. 10,373 over the collections of the previous year.

The number of cattle and sheep grazed gives an average of Annas 2·4 per head, varying from 1 anna in South Arcot to 4 annas in South Coimbatore, according to the proportion of sheep included, and the period of the year for which the fees were collected.

The following abstract shows the progress:—

ABSTRACT J.—Grazing and grass collections.

Items.	During 1886-87.			During 1887-88.		
	Number.	Amount.	Average.	Number.	Amount.	Average.
		Rs.	Rs. A P.		Rs.	Rs. A. P.
By grazing fees, per head	..	35,665	..	285,233	42,650	0 2 4
Do. contracts, per square mile.	..	..	..	..	3,388	..
By grass sales, per ton						
Total ..	..	35,665	..	285,233	46,038	..

All the districts that have started grazing on fees, have gradually improved their collections for this year.

By far the largest collection was made in the upland taluk reserves of North Coimbatore, which amounted to two-thirds of the whole Circle. South Coimbatore, Trichinopoly and South Arcot, have made a fair start, and Madura, Chingleput, Tinnevelly and Tanjore are following suit. No fees were collected in North Arcot, Salem, North Malabar, South Malabar and South Canara.

In the first two of the latter, collections will begin this year; in the other three, it is very doubtful if applications will be made at present, owing to the large areas of private forest, and to the comparatively few resident cattle.

The following district notes are added :—

In Chingleput,—In spite of large areas of Unreserved lands, the people generally preferred to pay the small fees prescribed, and grazed their cattle in the reserves on account of better pasturage. The District Forest-officer reports, that this is now spoken of as a *privilege*, by resident and neighbouring cultivators. Goats were strictly excluded.

In North Arcot,—The Reserved lands were thrown open to free grazing as a temporary measure, and no grazing was allowed in Reserved Forests.

In South Arcot,—Grazing of local herds was allowed on payment in Reserved lands.

In Trichinopoly,—The right to cut grass in most of the Government plantations was leased out for Rs. 340. The right to graze a limited number of cattle in certain Reserved lands was sold for Rs. 598. In other cases, grazing was allowed on payment under the seigniorage system. It is to be noted that the ryots in this district offered no objection to payment of grazing fees.

In Tanjore,—Free grazing was allowed in a small portion of Point Calimere forest, to two adjoining villages. Elsewhere fees were levied.

In North Coimbatore,—A census of the cattle in the Reserved lands of Satyamangalam, Kollegál and Bhaváni taluks, was taken on 30th April 1887, and half the sanctioned seigniorage rates was charged on local herds, and full rates on foreign cattle. The hill villagers were allowed free grazing for two head of cattle to each acre under cultivation, and the low-land villagers adjoining the reserves, two head of cattle for every 4 acres under cultivation. The concession granted amounted in money value to Rs. 7,468.

In South Coimbatore,—Grazing on payment was allowed over the whole area, excepting fire-protected portions.

In Madura,—About 8 square miles of Reserved Forests and 50 square miles of Reserved lands in No. II or Kodaikánal range, were thrown open for grazing on payment, which amounted to Rs. 1,223. Rs. 301 was likewise collected in No. V or Madura and Tirumangalam range.

In Tinnevelly,—The people of the Sankaranainárkoil and Tenkási taluks availed themselves of the privilege of grazing on payment in about 9 square miles of Reserved forests.

In the greater portion of Reserved lands, free grazing was permitted; grazing in about 2 square miles of Reserved lands was leased out for Rs. 225.

In North Malabar,—Arrangements were made to allow grazing on payment in Reserved Forests, but the privilege was not availed of.

In Salem,—Arrangements were made towards the end of the year to gradually introduce grazing fees, and a few reserves were selected for the purpose.

18. It is gratifying to note, that the complaints against grazing restrictions have been very few this year, and it is believed that if we introduce rules gradually, and relax such rules in favor of adjoining villagers, the people will begin to regard our grazing measures with some satisfaction.

The views of the Board and Government on this very important subject are expressed in their Orders on the last Annual Report, and generally our present policy may be briefly described as follows :—

To exclude all goats from reserves ;
To allow free cutting and removal of grass ;
To gradually restrict unlimited grazing of cattle and sheep in reserves ;
To gradually impose fees on the numbers admitted.

In imposing fees, and limiting the number of cattle in a reserve, it has been found best to select only *Reserved Forests* that have been clearly demarcated, and after calculating the number to be grazed, to issue free permits at the rate of two cattle and four sheep for each acre of holding enclosed in the reserve, and then apportion the remainder to adjoining villagers, in the proportion that their patta lands bear to the whole lands of adjoining villagers who apply before a certain date. After expiry of the time fixed, then grazing, up to the limit of cattle allowed, may be given to any outside bidder. We have now 7,555 square miles of reserves, and if we allow on an average 3 acres per head, or, say 210 head per square mile, we provide grazing for nearly 16 lakhs of cattle, which at 4 annas a head would bring in an annual revenue of close on 4 lakhs of rupees.

In Salem, it was found best to provide for the possibility of areas being closed to grazing from time to time, up to a limit of half of each reserve, and consequently to work on the larger allowance of 5 acres of the whole area per head. At this calculation, the figures would be nearly 10 lakhs of cattle, and $2\frac{1}{2}$ lakhs of rupees. We are not, however, limited to rates as far as Reserved Forests are concerned, and in course of time, it is believed we may be offered in some areas at least as much as 8 annas per head, nor can it be considered that this will be high for cattle kept for agricultural purposes, or for breeders of cattle, who, up to this, have contributed nothing towards State revenues.

In Tinnevelly an area was leased out at the rate of Rs. 112 a square mile, which is already more than double the 4 annas per 3-acre rate, and treble the 4 annas per 5-acre rate.

It may be seen then, what a fruitful source of revenue can be secured by a steady but cautious developement of the grazing system. In case these figures are thought over-sanguine, on the ground that many of our areas may not be indented on at all for grazing, it must be remembered on the other hand, that the calculations have not included sheep, which are generally admitted at half the rates, and double the number of the cattle. At the same time, comparing the present extent of reserves (7,555 square miles) with the whole area of uncultivated lands (totals of columns 4, 5, 6 and 7 in abstract *C*), it will be seen, that over 30,000 square miles, or more than four times the extent of our present reserves, is available for free and unrestricted grazing.

(*e*) *Natural Reproduction.*

19. It is apparent to all observers, and must be obvious to others, that the protection of a forest from fires and unrestricted grazing, secures an improvement in the growth both young and old, but notably in the former. It may indeed become a question whether the undergrowth will not become so thick and common, as to give us some trouble in making room for the particular species that we desire to encourage, but we have not protected long enough yet to feel this difficulty.

All Forest officers report, that the general appearance of our reserves is improving, and that where compartments have been coppiced, the growth from the stools and seedlings is encouraging. It is very good in areas with over 50 inches of well-distributed rainfall, and luxuriant in areas with over 100 inches.

The following remarks by Colonel Walker on his inspections in Madura, apply generally to all the reserves in the dry districts of the Presidency :—

"I found the protection of the Alagar hill reserved forest very good, and growth steadily improving, both there and in other localities which have been even partially protected against fire, promiscuous felling, and damage by cattle and their herdsmen, during the past three or four years.

"It takes a long time to reclothe denuded slopes, but nothing struck me more, after a long and intimate knowledge of the district, than the good results apparent from conservancy and protection, which the villagers themselves admit.

"It cannot be too clearly borne in mind, that we just stepped in in time to prevent utter ruin, for not only had all trees and shrubs been cut, but the very roots grubbed up, and the hill slopes were fast approaching the last stage, in which remedial measures are all but impracticable, except at very great cost, the soil having been washed away, and all seed-bearing trees and shrubs exterminated, nothing being left beyond bare and arid slopes, seamed with mountain torrents and ravines which carried off the rain immediately it fell."

In Chingleput,—Reproduction in the protected areas of Kambakam was improving and satisfactory. The seedlings were doing well, and the growth from coppiced stools was encouraging.

In North Arcot,—Natural reproduction, in the reserved forests (excluding portions in which fires occurred in the preceding year), was very good, seedlings and saplings of three to six years growth being plentiful, particularly in the Napier, Mamandúr and Chamala reserves. In comparison, the absence of seedlings in areas not protected from fire and cattle, was reported to be very marked.

In South Arcot,—Good results were noticeable in protected areas. The growth from coppice in the casuarina plantations near Cuddalore continued to be good.

In Salem,—A record of coppice growth was maintained for the coupe felled between November and January of 1886-87 in the Morur block, and showed fairly good results. The girth of the stools varied from $1\frac{1}{2}$ to $4\frac{1}{2}$ feet, the number of shoots from 4 to 29, and the height of the shoots in 16 months, from 3 to 5 feet according to the species.

In Trichinopoly,—The reproduction from stool of the Palai (*Wrightia tinctoria*) in a coupe of 48 acres felled in 1885-86, had risen, in $2\frac{1}{2}$ years, from 15 to 20 feet; but the Albizzia, which is the prevailing species, did not coppice so well, especially on the hill slopes, a good many stools having failed to reproduce at all, which was put down to the old age at which the trees were felled.

In Tanjore,—Reproduction continued to be good.

In North Coimbatore,—Signs of improvement were observed in the Ellapalliem and Arachalur fuel and fodder reserves of the Erode range, and in the fire-protected areas of the Satyamangalam and Kollegál ranges.

In South Coimbatore,—Coppice shoots and seedlings were noticeable everywhere in No. VIII, Sholakarai range, from which fire and cattle had been excluded; the regrowth in coupes felled in the two preceding years was most satisfactory.

On the Anaimalais, natural reproduction from seed was not satisfactory; the ground was unfit to receive the seeds, and when they did germinate, the heavy tall grass prevented the seedlings from growing up.

In Madura,—The natural reproduction, either from coppice or seed, in the "coupe" felled in the Kadavur compartment of the Alagar hill reserved forest in 1885-86 was not very encouraging. Colonel Walker considered this due to the felling not having been carefully conducted, and to subsequent protection having been bad. The soil, however, was reported to be poor, and the rainfall scanty.

Coppice shoots of Adugai (*Alangium lamarckii*) averaged from 6 to 8 feet in height, and looked very robust and healthy, but the ground was found to be poorly covered and infested with climbers and creepers, thorny shrubs, &c., *Acacia latronum* being very troublesome.

In Tinnevelly,—The natural reproduction of the Odai (*Acacia planifrons*) was good in the Kongarayakurchi block. The block is partly covered with indigenous growth (chiefly *Acacia planifrons* and *Melia Indica*), and partly planted with Mahogany. The Nim (*Melia Indica*) showed good growth, and the Mahoganies looked healthy, but required congeners.

In the Tenkási forests, the reproduction of the teak both from coppice and seed, in nearly all the coupes felled on the coppice under standard system, during the year under report, and the preceding year, was found to be highly satisfactory. The coppice growth, 9 months old, averaged 5 to 6 feet in height, and $2\frac{1}{2}$ to 3 inches in girth, whilst the ground was full of seedlings.

The District Forest-officer reports that the extensive grass areas in the Pápanásam hills, which he considered to be the remains of a burnt-out forest, were all showing

some signs of recovery, for root suckers were putting in an appearance, owing to fire having been kept out for the previous 4 years.

In North Malabar, the District Forest-officer reports that in Begur forest, Honne (*Pterocarpus marsupium*) and blackwood had, as usual, seeded well, and that the seedlings of the former had been very evenly distributed over the forest, and were growing fairly well. The reproduction from teak seed was not satisfactory, and the number of seedlings were very small. This is attributed to the dense undergrowth of *Helicteres*, *Lea* and *Zingiberaceous* plants, which shut out both light and air. Reproduction in the other deciduous reserved forests is also reported to have been backward; whereas in the shola forests of Periya, it was excellent. The reproduction of Irul and other valuable timbers in the Kanot forest was very promising.

In South Malabar, the growth from seeds and stools in the Karimpoya and Nellikutta reserved forests, continued to be good. The coppice growth in the previous year's fellings of the Wálayar reserve was also satisfactory.

In South Canara, the Dhup (*Vateria malabarica*) is specially noticed for the profusion of young seedlings. The *Hopea parviflora* also reproduced well from self-sown seeds.

(*f*) *Artificial Reproduction, Regular Plantations, Cultural Operations, and Topes* (*see Appendices* 60 *and* 61).

20. There is some difficulty in arranging figures, and drawing conclusions under this head. The *areas* on which expenditure has been incurred in *cultural operations*, may vary every year, and no attempt, the Acting Conservator thinks, should be made to show these *areas* in the plantation returns. The expenditure on artificial reproduction naturally falls under—

1. Forest reserves ... ... Plantations (including topes), and other areas.
2. Unreserved land ... ... Do. do.

And in course of time, as our accounts improve, it is hoped that the expenditure and revenue may be kept under separate heads for each reserve or working circle, so that the profit or otherwise of working each may be shown.

There should, as a rule, be no expenditure on unreserved lands that are not either plantations or topes, and it is considered advisable that, gradually hereafter, all topes and plantations which are worth retaining should be classed as reserves, and the remainder struck out of our lists and transferred to unreserved land. At the same time, all topes in which regular planting operations are undertaken, should be dealt with as plantations, and the remainder as simple reserves. However, the figures are now taken as shown in the accounts at present, and the following abstract exhibits progress up to date.

ABSTRACT K.—Plantations, Topes and Cultural operations in other areas, from commencement (see Appendices 60 and 61).

	Up to 1886-87.		Added during 1886-87.		Added during 1887-88.		Total.	
	Area.	Cost.	Area.	Cost.	Area.	Cost.	Area.	Cost.
	ACS.	RS.	ACS.	RS.	ACS.	RS.	ACS.	RS.
Plantations	12,234	5,83,366	— 448	+ 1,682	+ 132	+ 24,609	11,919	6,09,828
(Add expenditure prior to 1885-86 excluded in the plantation returns of that year, but adjusted by the Examiner during the current year.)	..	..	..	..	..	171		
Topes	18,252	2,58,187	+ 657	+ 33,399	— 26	+ 3,381	18,883	2,94,967
Other areas	2,536 and 100 miles of channel banks.	28,460	+ 436	+ 4,201	+ 389	+ 1,978	3,361 and 100 miles of channel banks.	34,639
Total ..	33,022 and 100 miles of channel banks.	8,70,013	+ 645	+ 39,282	+ 495	+ 30,139	34,163 and 100 miles of channel banks.	9,39,434

21. The Revised budget allotment under VIII (*d*) Plantation, was Rs. 36,763. The short expenditure occurred principally in Salem, Tanjore, Madura, and South Malabar.

The decrease in Malabar was owing to extension of teak planting having been confined to 85 acres instead of 100 acres as provided for, and in Salem, to several tope watchers having been dispensed with.

In Chingleput, 17,500 casuarina seedlings were transplanted during the year in Meyur and Wálajáh topes. There were heavy casualties, and only 4,000 were doing well at the close of the year.

Acres 9·58 were added to Homes' garden tope in Saidápet for experimental cultivation of Persian date palms, as per Board's Proceedings, 7th October 1887, Mis. No. 2523. The produce of all topes in this district was leased out for Rs. 150.

Various kinds of seeds were sown in 550 pits in the Kambakam hills, and 40 mahogany and 24 bamboo seedlings were set out along the streams.

In North Arcot, failures in old casuarina plantations were replaced, and 69 acres replanted.

In South Arcot, 46 acres were newly planted with casuarina. 2,132 measures of seeds of various kinds were collected and sown in 15 different blocks.

In Salem, the topes were leased out for 3 years, and the establishments considerably reduced. Eight topes were temporarily transferred under certain conditions to Land Revenue officers, and Local and Municipal bodies. One tope was handed over to the Railway Company, and one tope was added to the list.

In Trichinopoly, 12 acres were replanted with casuarina, *Cassia fistula*, and *Albizzia Lebbeck*, and 55·2 acres were added to the plantation areas. 6·45 acres in the area of topes omitted in previous years have now been included.

In Tanjore, 26 acres, being the area of Kadambadi plantation abandoned as per G.O., 11th May 1885, No. 541, were excluded from the plantation area.

Twenty acres of cashew-nut and casuarina seedlings were planted.

In North Coimbatore, two miles of scrub jungle were cleared for a channel to irrigate the Bailur sandalwood plantation, one mile of the proposed channel was dug, and a small stone anicut was built. 18 acres of the plantation and 4½ miles of inspection paths were weeded. Temporary sheds were repaired, and a few new huts erected for the coolies, &c.

In South Coimbatore, two topes were handed over to the Land Revenue Department.

In Madura, the Velamkombai teak plantation was reported to be looking very well but required thinning.

The growth, however, was very slow.

It was definitely arranged to abandon Parappar on the Palni Hills as a planting site, and to take up a new one (188 acres) at Gundan shola, about two miles from the Kodaikánal Settlement. 5 acres of this new site were planted, and were doing well. The Acacia plantation was not favorably reported on. All other plantations in the district were doing well, but the growth of teak in Vannatiparai was as slow as in Velamkombai.

In Tinnevelly, 102,000 palmyra nuts were sown in 150 acres of the Kudirimalaiteri, where 30 acres were also sown with Odai (*Acacia planifrons*), by penning some goats, and 70 acres by dibbling in the dung of goats and sheep after they had had fed on the pods. 75 measures of Odai seeds, mixed with manure, were also sown in 50 acres, and another 10 acres were sown with Virali (*Dodonæa viscosa*) and Karunavurvi.

In North Malabar, the teak plantations at Kanôt were weeded, demarcated and fire-protected. Weeds were removed, and crooked and badly grown plants were

coppiced or pruned. The planting was done between 1876 and 1879, and the Acting Conservator found on inspection, that it was generally badly done. The planting of 1878 was the best. About 5 per cent. of the saplings were 9 inches in diameter, 10 per cent. 6 inches, 50 per cent. 3 inches, and the rest under 3 inches in October last. In some places there was a substratum of rock or gravel, which interfered with the growth.

The expediency of maintaining the Manantoddy botanical gardens was questioned, and further inquiries ordered.

One hundred measures of teak seed were sown broadcast in Kanôt tuckles, but very few germinated. The 32 acres of cardamoms planted in Periya in 1886, and the 40 acres purchased from Mr. Fletcher were weeded, and failures supplied. The crop from both gardens was farmed for Rs. 710. The extension to the gardens consisted of 77 acres.

In South Malabar, 96,400 teak and 1,207 mahogany plants were set out in 85 acres, but owing to want of rain in July and August, there were many casualties, most of which were, however, replaced in the following months, as also were 4,330 casualties in teak, and 881 in mahogany, of the preceding year. 1,946 mahogany plants were also put out in the 1886-87 planting, as well as Burma bamboos along the river banks.

12 lbs. of mahogany seeds from the Botanical Garden, Calcutta, in August 1887, were sown in nursery beds. They germinated fairly, and some 4,000 seedlings are now available for next year's transplanting.

The Acting Conservator inspected the Nilambúr teak plantations in November and December 1887, and was favorably impressed.

His observations were reported.

In South Canara, 11 acres of casuarina were newly planted during the year. 46·39 acres were found on survey to be deficient in the old areas, and were excluded from the plantation area.

The growth of casuarina in the Ullal plantation was fair for the old planting, and good for the new. Of the latter, the best was the planting 4 years old, the trees in which averaged from 20 to 25 feet in height when the Acting Conservator visited the district in November 1887. The Honne (*Calophyllum inophyllum*) was not considered of much value, except as an ornamental tree. Its growth is slow for fuel, and its size is not sufficient for timber.

(*g*) *Works of Improvement.*

22. This is a very general heading, and practically includes works under nearly all the other heads. Following, however, the procedure in previous years, notice is only taken here of the expenditure of Rs. 560 under VIII (*f*) for forming compartments, and for eradicating prickly-pear from reserves, the first of which, the Acting Conservator thinks, should have been charged to boundaries, and the last to cultural operations.

(*h*) *Experiments and Exotic Trees.*

23. The report on experiments with exotics, &c., is printed as an appendix, as ordered by Government in their review on last Annual Report.

(*i*) *Communications and Buildings.*

24. The Revised estimate was Rs. 44,125 and the expenditure Rs. 32,488. The short expenditure was chiefly in North Arcot, Salem, North Coimbatore, South Coimbatore, North Malabar and South Malabar, and generally speaking was due to the establishment being employed on selection, demarcation, and settlement of reserves, —all more important works at present, than roads and buildings. As it is, however, Rs. 6,499 more were spent, than during the year before. The following abstract *should* give the cost *up to date*, but the previous figures have not been collected, nor

has the depreciation for wear and tear, to be written off each year, been decided. It is hoped that by next year these figures may be given.

ABSTRACT L.—Communications and buildings from commencement.

Description of work.	Cost up to the year, less percentage for depreciation.	Cost during the year.	Total from commencement.
		RS.	
Previous roads	Previous figures not collected.	...	
Do. buildings		...	
Do. other works		...	
Road repairs	...	4,610	
New roads	...	9,414	Totals await previous figures.
Building repairs	...	5,593	
New building	...	11,714	
Other work repairs	...	778	
New other works	...	379	
	Total ...	32,488	

The new roads and buildings during the year consisted of—

In Chingleput,—A tiled rest-house and a tannah-house, at Varadapalliem and Gundur, respectively.

In North Arcot,—Collection of materials for a bridge at Amerdi.

In South Arcot,—The conversion of two miles of Tenmalai ghât trace into a bridal path 5 feet wide, and the extension of Tenmalai forest rest-house.

In Salem,—The construction of a fair-weather road (6 miles), from Kanakurchi village to Kuputur reserve, and the construction of three tannah-sheds.

In Trichinopoly,—A fuel feeder (4 miles), from the railway line near Kálpatti to Punjantangi.

In North Coimbatore,—The tracing of 12 miles of roads, and the construction of five rest-houses and twelve tannah-huts.

In South Coimbatore,—The erection of 17 small bridges, and the addition of outhouses to the Ranger's quarters at Setumadai.

In Madura,—The construction of roads near Machur, and from Kadavur to Chatrapatti, and the completion of the Gundan shola to Púmbarai road; the construction of two rest-houses at Uttamapalliem and Devadanapatti; one tannah-hut at Peermaad; one pony-shed at Kodaikánal, and the completion of store-room at Kodaikánal.

In Tinnevelly,—The construction of 6½ miles of Kariarkannaikotai odai cart-road, and the Parapavillai bridge. The construction of a Ranger's office at Ambásamudram; the roofing with tiles, &c., of the bungalow at Kannaikotai odai; the part construction of a building at Kalivilaipet, and of a Ranger's office at Vasudevanallur.

In North Malabar,—3½ miles of road from Madapalli to Gulur road; inspection paths in Peria, Kanot, &c., and three bridges on Pambrai road. The construction of one Mahout lines at Begúr; one Forester's serambi at Maki; one seed-house and one gardener's house in the experimental gardens; one District Forest office and a latrine at Manantoddy; one kitchen and one stable at Kuppadi, and one Forester's serambi at Kanot.

In South Malabar,—The opening out of an inspection path 3 feet wide and 1½ miles long in Chenat Nair; the Dhoni road; a bridge at Wálayár, and 3½ miles of compartment roads in teak plantations at Nilambúr; one chappa and two huts for a Forester and guards in Wálayár, one chappa at Dhoni, and the District Forest-officer's bungalow at Nilambúr (in course of construction).

In South Canara,—Two inspection sheds at Ullal and Tannirbavi.

It was definitely arranged to have about 9 miles of tramway, *i.e.*, 7 miles in South Coimbatore, and 2 miles in North Arcot, the former for transport of timber from Tekkadi leased forests, and the latter for transport of firewood from Tiruvallam casuarina plantation. Estimates were accordingly prepared, and indents forwarded to the India Office during the year. The tramway materials have recently arrived, and the lines are being laid.

CHAPTER V.

YIELD AND WORKING.

25. The total yield for the year in tons, as compared with the former year, is shown in the following abstract :—

ABSTRACT M.—Comparative yield in tons.

Heads.	Timber.		Firewood and charcoal.		Bamboos.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
1	2	3	4	5	6	7
Departmental agency	5,997	(*a*) 3,432	12,156	(*b*) 9,422	200	238
Removals by purchasers	21,077	27,375	182,263	149,733	29,500	27,206
Confiscated wood	240	336	188	243	7	28
Free grants, as far as known	143	1,259	10	113	18	569
Total ..	27,457	32,402	194,617	159,511	29,725	28,041
Difference in 1887-88 as compared with 1886-87	+ 4,945		— 35,106		— 1,684	

Heads.	Sandalwood.		Minor produce.		Total.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	8	9	10	11	12	13
Departmental agency	11	27	382	422	18,746	13,541
Removals by purchasers	..	..	10,160	25,880	243,000	230,194
Confiscated wood	..	..	60	65	495	672
Free grants, as far as known	..	..	4	110	175	2,051
Total ..	11	27	10,606	26,477	262,416	246,458
Difference in 1887-88 as compared with 1886-87	+ 16		+ 15,871		— 15,958	

(*a*) Includes 12 tons being excess found on remeasurement of timber collected and taken to depôt in previous year.
(*b*) Do. 1 ,, do. do. of firewood do.

There was a decrease in the total yield, of about 6 per cent. on the previous year, which will be explained under the heads to follow.

Section 1—*Departmental Operations* (*Appendices* 68, 69, 70, 71 *and* 73-A).

26. The following comparison of trees felled departmentally is given :—

ABSTRACT N.—Trees felled and converted (see Appendix 68).

Balance brought forward.	Felled, 1886-87.	Felled, 1887-88.	Converted, 1886-87.	Converted, 1887-88.	Balance carried forward.
503	8,157	4,417	8,180	4,809	88

The trees felled, and trees converted, amounted to about one half of those in the previous year. This was due to the necessity of decreasing the felling in North Malabar (Wynaad), where there were fewer fresh demands for timber at the usual prices, and where we had a large stock on hand. The outturn of trees converted, is carried into the next account, but all timber shown as collected in that account, has not necessarily passed through this return, which refers particularly to *selected trees* only.

27. The following abstract compares the produce, collected and disposed of by the department, with that of the previous year:—

ABSTRACT O.—Produce collected and disposed of (see Appendices 69, 70, 71 and 73-A).

Produce collected.	BALANCE BROUGHT FORWARD.			DURING 1886-87.			DURING 1887-88.		
	Tons.	Value.	Average.	Tons.	Cost.	Average.	Tons.	Cost.	Average.
		RS.	RS. A. P.		RS.	RS. A. P.		RS.	RS. A. P.
Timber	3,450	..	..	5,997	53,976	9 0 0	3,432	45,243	13 3 0
Firewood and charcoal	1,240	..	..	12,156	12,701	1 0 0	9,422	16,759	1 12 0
Bamboos	463	..	..	200	412	2 0 0	238	216	0 14 0
Sandalwood	15	..	..	11	613	56 0 0	27	1,193	44 2 0
Minor produce ..	2	..	..	382	23,483	61 0 0	422	28,296	67 4 0
Total ..	5,170	..	..	18,746	91,185	5 0 0	13,541	91,707	6 12 0

Produce disposed of.	DURING 1886-87.			DURING 1887-88.			BALANCE CARRIED FORWARD.		
	Tons.	Sales.	Average.	Tons.	Sales.	Average.	Tons.	Value.	Average.
		RS.	RS. A. P.		RS.	RS. A. P.		RS.	RS. A. P.
Timber	3,650	61,190	16 12 0	4,128	1,08,660	26 5 0	5,101	..	..
Firewood and charcoal	12,103	31,056	2 9 0	9,827	40,729	4 2 0	888	..	...
Bamboos	500	2,528	5 0 0	340	852	2 8 0	61	..	..
Sandalwood	14	5,057	361 3 0	3	690	230 0 0	36	..	..
Minor produce ..	381	32,449	85 3 0	353	36,439	103 0 0	72	..	..
Total ..	16,648	1,32,280	7 14 0	14,651	1,87,370	12 2 0	6,158	..	..

The actuals under this head were, Rs. 9,785 less expenditure, and Rs. 78,363 less revenue, than was provided for in the Revised budget. The decrease on both accounts was chiefly due to the demand on the West Coast not coming up to anticipations, which considerably interfered with the expected timber sales in South Canara, Malabar, and South Coimbatore.

The estimates of sales must have been somewhat too sanguine, for as it is, there were better sales than last year by Rs. 47,470 under timber, though this is partly due to defaulters of the previous year being made to pay up in the year under report. The rates for collecting timber, firewood and minor produce were higher, and for bamboos lower, than last year, due to the proportions carried to depôt during the two years being different. This may be seen from the result under sales, where timber, firewood, and minor produce realized a much higher, and bamboos a lower rate, due to more of the former being sold from depôt. Next year, it is hoped that the figures may be shown separately for "forests" and "depôts" under each item, so as to secure a fairer comparison of rates. The sandalwood sales and rates were lower than last year, as there was a general falling off in the prices offered.

The department supplied direct to public works and railways, 30 tons of timber, and 3,466 tons of firewood. The value of the opening and closing balances is not entered, as it would not agree with Appendix 73-A, which only shows for *dépôt* stock, whereas this abstract includes the stock collected in forests as well. The value of stock balance in depôts (Appendix 73-A), was Rs. 53,780, as against Rs. 64,927 at the

commencement of the year, showing a reduction of stock balance to the amount of Rs. 11,147, which is satisfactory.

Section 2—Removals by Purchasers (Appendix 72-A).

28. The following abstract exhibits the removals by purchasers under permit or license, as compared with the previous year :—

ABSTRACT P.—Produce removed by permit-holders (Appendix 72-A).

Produce.	During 1886-87.			During 1887-88.		
	Tons.	Revenue.	Average.	Tons.	Revenue.	Average.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber	21,077	1,00,752	4 12 0	27,375	99,254	3 10 0
Firewood and charcoal	182,263	1,68,730	0 15 0	149,733	1,58,623	1 1 0
Bamboos	29,500	68,174	2 5 0	27,206	76,545	2 13 0
Grass and grazing	..	35,840	..	..	45,918	..
Minor produce	10,160	1,73,059	17 0 0	25,880	2,24,222	9 0 0
Total ..	243,000	5,46,555	2 4 0	230,194	6,04,562	2 10 0

The actual revenue realized during the year, is Rs. 45,000 in excess of the Revised estimate. About 6,000 tons more of timber were removed than last year, but the rates were less, due to a larger supply of the cheaper classes; and this also explains the decrease in the quantity of the firewood supplied, for wood that was formerly classed as firewood, was really III class wood (poles and picked wood), and is now shown under that class as timber. The rates for firewood have improved.

Though the rates for bamboos have also improved, there is a small decrease in the quantity supplied, which, it is considered, is due chiefly to the reduction-to-tons not being always calculated out in the same way.

The increase under grazing has been explained in a previous chapter. Minor produce includes a very large variety, with different methods of collections, and it is nearly impossible at present, to give a fairly correct estimate in tons, and averages. The information will improve each year, but at present, all that can be remarked is, that there was a large increase of Rs. 51,163 under this item, and that it is expected a steady improvement will be maintained. The quantities supplied under this head, through contractors and to railways, were 16,000 tons of firewood.

29. *Confiscated produce—(see Appendix 72-B).*—The confiscations during the year, as compared with the year before, were as follows :—

ABSTRACT Q.—Confiscations (see Appendix 72-B).

Produce.	During 1886-87.			During 1887-88.		
	Tons.	Realized.	Average.	Tons.	Realized.	Average.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber	240	..	..	336	..	..
Firewood and charcoal	188	..	..	243	..	..
Bamboos	7	..	..	28	..	..
Sandalwood	..	..	..	..	..	..
Minor produce	60	..	..	65	..	..
Total ..	495	2,897	5 14 0	672	3,054	4 9 0

Section 3—Free grants of Forest Produce.

30. The following exhibits the free grants, by special permit or license, and their value, as compared with last year :—

ABSTRACT R.—Free grants.

District.	Timber.			Firewood.		
	Tons.	Value.	Average.	Tons.	Value.	Average.
1	2	3	4	5	6	7
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Chingleput	3	11	..	..	..	..
North Arcot	140	508	..	103	109	..
South Arcot	95	344	..	10	11	..
Salem	72	261	..	..	..	..
Trichinopoly	6	20	..	..	..	..
South Coimbatore	..	..	..	..	..	..
Madura	29	105	..	..	..	..
Tinnevelly	3	11	..	..	..	..
South Canara	911	3,303	..	..	..	..
Total ..	1,259	4,563	3 10 0	113	120	1 1 0
Free grants last year ..	143	679	4 12 0	10	9	0 15 0
Difference ..	+ 1,116	+ 3,884	..	+ 103	+ 111	..

—	Bamboos.			Minor produce.			Total.		
	Tons.	Value.	Average.	Tons.	Value.	Average.	Tons.	Value.	Average.
	8	9	10	11	12	13	14	15	16
		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Chingleput	..	..	..	5	45	..	..	..	..
North Arcot	51	143	..	..	..	..	..	..	..
South Arcot	..	..	..	..	..	..	..	..	..
Salem	518	1,457	..	..	..	..	..	..	..
Trichinopoly	..	..	..	..	..	..	..	..	..
South Coimbatore	..	..	..	100	900	..	..	..	..
Madura	..	..	..	5	45	..	..	..	..
Tinnevelly	..	..	..	..	..	..	..	..	..
South Canara	..	..	..	..	..	..	..	..	..
Total ..	569	1,600	2 13 0	110	990	9 0 0	2,051	7,272	3 8 0
Free grants last year ..	18	42	2 5 0	4	68	17 0 0	175	793	4 8 0
Difference ..	+ 551	+ 1,558	..	+ 106	+ 922	..	+ 1,876	+ 6,474	..

There is an increase in the quantity granted under all heads this year, but this does not mean that the people actually enjoyed more free produce than previously, but that where they formerly got a *general* permission, they have now to get a specific permit so far as forest reserves are concerned, and this return represents such permits, as well as some special grants from unreserved land.

As a general rule, grazing, leaves for manure (from unreserved trees), and head-loads of thorns and dry wood, are allowed free for domestic use only, from unreserved lands; while the cutting of grass, and the use of leaves for manure (not of the reserved kinds, and not in the areas specially protected), is allowed free from reserved lands.

CHAPTER VI.

FINANCIAL RESULTS.

31. The revenue and expenditure of the Circle, as per Appendix No. 64, compare with the actuals of four previous years, and with the Revised estimate of the year under report, as follows :—

ABSTRACT S.—Cash results, from 1883-84.

Items.	For 1883-84.	For 1884-85.	For 1885-86.	For 1886-87.	For 1887-88..	Revised estimate for 1887-88.	The year under report, compared with the previous year.	The year under report, compared with the Revised estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	5,45,963	6,25,492	6,52,318	6,94,535	8,10,197	8,36,800	+ 1,15,662	— 26,603
Expenditure—								
A. Conservancy and Works.	1,88,612	2,09,344	2,34,006	3,80,192	3,35,437	3,51,300	— 44,755	— 15,863
B. Establishment ..	2,59,396	2,87,579	3,00,608	3,40,529	3,28,981	3,38,500	— 11,548	— 9,519
Total Expenditure ..	4,48,008	4,96,923	5,34,614	7,20,721	6,64,418	6,89,800	— 56,303	— 25,382
Net results ..	+97,955	+1,28,569	+1,17,704	— 26,186	+1,45,779	+1,47,000	..	..

The revenue has risen considerably since 1883-84, and the surplus is higher than any year from that time. This is only a return of cash results. Last year, the surplus in favor of working would have been about Rs. 50,000, but for the large expenditure of Rs. 75,000 on capital account in connection with the Tekadi forest lease. This year the surplus would have been about Rs. 1,88,000, but for a similar expenditure of Rs. 42,000 in the purchase of the Amarapolliam forest estate. As it is, the surplus shown was Rs. 1,71,965 better than the year previous.

The total revenue and expenditure, compared with the Revised estimate, are both a little more than 3 per cent. less, so that the net surplus remains nearly as anticipated. The increase or decrease under revenue, and under conservancy and works, compared with the Revised estimate, have been explained in the preceding chapters.

The expenditure under B. Establishment, was less than that of the preceding year, and also of the Revised estimate, owing to the transfer of a Senior Deputy Conservator (Mr. Peet) to act as Conservator, Northern Circle, and to the absence of two Deputy Conservators (Messrs. Gass and Morgan) on furlough, their place having been filled up temporarily by a Junior Assistant Conservator, and a Sub-Assistant Conservator.

Towards the cash surplus shown, the district of Salem contributed 38 per cent., North Coimbatore, North Arcot and South Arcot, 29, 27 and 23 per cent. respectively, Madura 10 per cent., Trichinopoly 5, Tinnevelly and South Coimbatore 4 each, and Tanjore 1 per cent.

There was a heavy deficit in South Malabar, viz., 34 per cent., for reasons already explained. The deficit in South Canara was 4 per cent. and in North Malabar 3 per cent.

The proportion of surplus to gross revenue was about 18 per cent.

32. As stated, the above summary of revenue and expenditure is only a cash account, and to arrive at a fair conclusion on the year's working results, it appears to the Acting Conservator, that we should add to the cash surplus of ... Rs. 1,45,779

The expenditure on live stock, stores, tools, plant and buildings (Form 73-*b*)	,,	18,855
Do. on Settlement establishment (B charges) ...	,,	22,503
Do. on Demarcation (VIII-*a*)	,,	11,613
Do. on acquisition of lands and rights (VIII-*b*) ...	,,	45,723
Do. on surveys (VIII-*c*)	,,	5,864
Do. on law charges (IX-*b*)	,,	2,353
Decrease in outstanding advances (Form No. 65)	,,	3,056
Total ...	,,	2,55,746
And deduct,		
Decrease in value of depôt stock (Form 73-*A*)	,,	11,147
Do. in outstanding revenue (Form 66)	,,	20,606
Total ...	,,	31,753

which leaves a balance of Rs. 2,23,993 in favor of the *ordinary* working account, for the year.

CHAPTER VII.

General Remarks.

33. *Forest School.*—Of the six officers of the subordinate staff, sent to the Forest School, Dehra Dun, in 1886-87, four returned at the close of 1887-88, but three of them only with Ranger's certificate, the fourth having failed in the final examination. Messrs. Marshall, Saldanha and Tapp of this Circle obtained all the six prizes awarded at the school in a class which consisted of about 30 to 40 students. Two students (Foresters Tapp and Surappier), remained at the school for a period of three months beyond the usual time. During the year under report, three fresh students (Foresters) were sent to the school.

We have now four school-trained and certificated Sub-Assistants, and eight Rangers.

34. *Conduct of the establishment.*—There is room for improvement among subordinates, and when individual responsibility is better fixed, the District Forest-officers will find it easier to bring negligent or dishonest hands to book. One Ranger and one Forester were reduced to the bottom of their respective grades, for neglect of duty, and submission of misleading reports. One Forester was reduced from 1st to 2nd grade, for frequent disobedience of orders. Four Foresters were under suspension at the close of the year, pending enquiry into charges against them; and there have been numerous warnings and minor punishments. Two cases of robbery of cash chests were reported (both in the Madura district)—one of a permit officer's and the other of a Forester's cash box.

Three cases of fraud on the part of Lower subordinates were detected, and the accused convicted, and two more were pending at the close of the year all in the Salem district.

In South Coimbatore, a series of defalcations were discovered, in which the Head Clerk of the District Forest office was concerned, and he was sentenced to three years' rigorous imprisonment and a fine of Rs. 500.

35. *Health of establishment.*—The superior staff has suffered. Mr. Stanbrough at the close of the year, was sent away on urgent medical furlough, and was soon followed by Mr. Somers Smith. Messrs. Wooldridge, Morgan, Hayne, Hadfield and Peake, have all suffered from fever and failing health.

The health of the subordinate establishment was also poor.

Fever was prevalent in all districts, except Chingleput, South Arcot and Tanjore. In North Arcot, Coimbatore, Malabar, South Canara and Salem, it was very bad, and many subordinates were incapacitated for work from one to six months, while death followed in the case of one Forester, and several guards and watchers.

36. *Service books.*—The District Forest-officers of Chingleput, South Arcot, Trichinopoly, South Coimbatore, Tinnevelly and South Canara, have given no information on this subject, though they were specially requested to do so. The District Forest-officers of North Arcot, Tanjore, North Coimbatore, and North and South Malabar, state that the service books of all their subordinates were posted up to date. In Salem, there has been a difficulty in writing up the service books, owing to the records having been destroyed by a flood some years ago. In Madura, the preparation of the service books was still being attended to. The Acting Conservator finds that in very few districts is a service index register, and a register for service orders, maintained. The Code lays down no orders on these very essential records; the omission will now be set right.

37. *Rules under the Forest Act.*—An addition has been made, authorizing Forest-officers unable to attend the forest settlement inquiry, to put in written statements, and depute a subordinate officer, not below the rank of a Forest Ranger, to explain such statements, if necessary, before the Forest Settlement-officer.

An exception was made under section 26, rule 10, in favor of drawing toddy from palms in unreserved lands, or reserved lands not specially protected. The revision of Timber Transit Rules was still under consideration, and a difficulty is felt in framing them, owing to the scattered nature of the areas to which they are to apply. District Forest-officers have not all noticed the working of the game license rules,

and in some districts the rules have not been yet introduced. Where they have, they have been fairly observed, except in very remote localities where our protective establishment is weak.

38. Some changes are necessary in our form and system of forest permits, and it is probable we shall have to abolish the issue of way permits by tannadars. There have been constant complaints. The forms are too numerous. The checking of them is very laborious. Rubber, or other stamps are necessary, to prevent the frequent alteration in the dates of issue, or limit of time, that are reported ; and the exchange of original permits for Way permits, by low-paid and illiterate tannadars, is constantly abused. The Acting Conservator thinks it may be found best, to have only one form of permit, consisting of merely counterfoil and original (instead of in triplicate as at present)—the former to be submitted by the issuing officer with his accounts, and the latter to cover the produce *en route*, and be recovered only at the last tanna, within the district, before destination, thus dispensing with the issue of Way permits, except in special cases, and by certain Upper subordinates alone. There are numerous difficulties and requirements to be met, which make a simplification of the rules very troublesome.

39. *Private forests.*—In North Arcot, the forest in the Kangundi estate (under the management of the Court of Wards), continued to be in charge of the District Forest-officers. Protection was rendered difficult, owing to the innumerable claims to rights of all kinds advanced by the people. In Madura, the Collector observes, that the denudation of forest in some of the zemindaris had become so serious, that he considered it absolutely necessary that Government should exercise control to prevent such ruthless destruction, and had instructed the District Forest-officer to prepare a report on the subject.

The preservation of forests in the Gandamanáyakanúr zemindari, is reported to be a matter of the first importance. These forests have ceased to be under the control of this department, since January last, when the Gandamanáyakanúr estate was handed over by the Court of Wards to the zemindar, who had then attained his majority. The forests of the Sáptúr estate continued to be under the control of this department, on behalf of the Court of Wards. These forests are also of much importance.

In Trichinopoly, a trained Forest Ranger was deputed to inspect and report on the forests of the Marungapuri zemin, recently brought under the control of the Court of Wards.

40. *Wild elephants.*—In South Canara, Malabar (Wynaad), and North Coimbatore, the elephants are reported to be largely increasing, and it may soon be advisable to take special steps, by pits or kheddah operations, for the capture of some of them.

In South Arcot, a solitary elephant was killed by the villagers, and it is believed was the sole remaining one on the Javadi hills.

41. *Babul wood (Acacia Arabica).*—Some interesting experiments were made by the Madras Railway Company, and the Chemical Examiner, which proved that this wood is unsuited for heating any vessels containing copper. The reasons are given in the following extract from the Chemical Examiner's letter :—

"It will be observed that the proportion of chlorine contained in this babul wood, greatly exceeds the proportion found by Dr. David Watson in some babul wood which he analysed for the Sind, Punjab and Delhi Railway Company.

"Experiments have also been made by exposing heated copper foil in a combustion furnace, to fumes mixed with air from acetic acid, sodium chloride, burning wood, and a mixture of sodic chloride and charcoal. The result of these experiments is, to show that sodium chloride acts rapidly, and most destructively upon the copper, and that pyroligenous (acetic) acid exerts a comparatively slight and superficial action.

"It must therefore be concluded that fumes from this wood would rapidly erode heated copper plates."

The corrosion of the copper varied according to the different tests, from ·0013 to 12 per cent. in 48 hours. Under the circumstances, the Railway Company naturally decline to purchase our wood for their engines.

APPENDIX A.

DETAILS OF EXPERIMENTS WITH EXOTICS DURING, AND UP TO, THE CLOSE OF THE OFFICIAL YEAR 1887-88.

Dates.— It was reported last year, that the attempt to raise date palms from seeds specially imported from Busrah in 1886, proved generally unsuccessful, owing, it was believed, to the seed being old and insect eaten. Out of 170 plants raised from the seed in Nilambúr (South Malabar), 168 were alive in the nursery (having attained a height of 1 foot 3 inches in nineteen months), and two were transplanted, and are doing well.

In Trichinopoly, of the 8 plants raised in 1886-87, 2 have died, and of those that survive, 3 look healthy. In Tinnevelly 14, out of the 19 plants raised, survive, and are healthy. Mr. Hadfield's experiments at Nilambúr with bazaar-imported date fruits have been successful. Out of the 25 seeds put down in Panangad Teak Plantation, where the soil is chiefly alluvial, 19 germinated after one month, and attained a height of 9 inches in about nine months.

Looking at the success which attended Mr. Hadfield's experiments with bazaar date fruits obtained on the West Coast, it has been resolved to continue the trial on a moderate scale in other districts; but the orders of Government on the subject, having been received late in the year, the results can only find a place in the report for 1888-89.

In this connection, Mr. Morgan, District Forest-officer, North Malabar, writes—

"As I have raised dates from seed planted so far back as 1878, and have scores of seedlings of different ages in the nurseries here, I do not think it now necessary to try the experiment ordered by the Conservator. Over 90 per cent. of the seeds of the better varieties of *ripe* dates sold at Calicut and Tellichery, germinate within twenty-eight days, provided the fruit is fresh, and the stones sound. Of course the seeds of those dates that have been boiled and dried, will not germinate.

I have planted out dates raised from seed in Kurnool, Trichinopoly and Coimbatore, and even on the hills, but do not know what befell the plants put out. Here (Manantoddy in Wynaad), the plants are extremely slow in growth, and it is evident that the climate is too moist for them. The largest palm I have seen has a clear stem about 10 feet high, and is growing in Seylur Timmagowda's garden near Begur. It is said to be twelve years old. Its sex is unknown. This plant was raised from bazaar seed.

There was a very fine young palm at Tippukadu on the Snowdon estate, some seven years old. This plant was uprooted by wild elephants in 1876. I will plant out some of the plants now in the nursery, in accordance with the Conservator's orders, and also put out some more seed."

The Acting Conservator has since ascertained from Mr. Morgan, when and where he planted out the date palms in the other districts mentioned, and inquiries are being made to find out how they are getting on.

The District Forest-officer, Chingleput, purchased one pound of fresh Arabian date fruits at the Madras Agri-Horticultural Garden Show, and sowed the seeds in pots. Almost all of them germinated (38 in number), and are thriving.

Date offsets.—The experiments with these offsets obtained from Busrah in 1886-87, show fair results which are shown in the following figures, and give a 10 per cent. average annual loss:—

District.	Number received put down in 1886-87.	Number of casualties during the year 1886-87.	Number which existed at the close of the year 1886-87.	Casualties during 1887-88.	Number existing at the close of 1887-88.	Condition of plants.
Chingleput	113	4	109	2	77	Look healthy; growing well.
North Arcot ..	100	5	95	2	93	
South Arcot	100	a few, say 5	95	* ..	95	* No report; all, except one, in good condition.
Trichinopoly ..	124	4	120	4	116	
Tinnevelly	74	..	74	† 43	‡ 31	† Eighteen in the nursery and twenty-five after transplanting.
						‡ Nineteen in the nursery and twelve transplanted.
Malabar (Wynaad)..	6	..	6	1	§ 5	§ Two growing fairly well, two indifferently and * one not mentioned.
Total ..	517	18	499	82	417	

It was stated in last year's report, that out of 446 Persian dates planted in the Vettangudi forest, Tanjore, in the year 1880, only 175 palms remained in 1887, the percentage of failure in this case amounting to 8 per annum. These 175 plants are now thriving fairly well. Of the 71 offsets transplanted in the same forest in 1886-87, eight died during the same year, and fifty-four in the following, thus leaving only nine alive at the close of 1887-88.

In "Meltottam" (Vedaranyam forest) of the same district, sixty-four plants remained at the commencement of the year. Six offsets were transplanted during the year, making a total of seventy plants. Of this number, ten died, and the remaining sixty are flourishing.

Divi Divi.—These plants in the Navinipatti garden in the Madura district, are doing well.

Edible Cactus.—Out of the twelve plants put out in 1886-87, nine survive at date, and have a healthy appearance. They do not, however, show much growth.

Ensilage.—In Chingleput the two silos formed in 1886-87 were opened during the year, and the results were so satisfactory, that a repetition of the experiment has been ordered. Two new silos have accordingly been constructed. The experiment in North Arcot and South Canara may also be regarded as a success. The results in Tinnevelly were satisfactory. In Salem, however, the experiment was not a success on the whole, and the Collector is undertaking fresh trials.

Eucalyptus.—Some of the Eucalypti trees at Palmanér, in North Arcot, seeded during the year. The *Eucalyptus rostrata* in Tinnevelly is doing well, showing a growth of about 20 feet at an elevation of 2,500 feet on the Pápanásam hills. In Wynaad, the five large trees, *Eucalyptus saligna*, continued to make good growth. They are now over 50 feet high and look sturdy.

Fourcroya.—The Fourcroya plants in the Navinipatti garden, Madura district, are well reported on. The plants put out on one side of a fire-line in the Alagar hill reserved forest have grown exceedingly well.

Giant Bamboos, &c.—In South Arcot an experiment was started by planting bamboo stems with reference to Colonel Van Someron's Note on Bamboos, but was not sufficiently advanced during the year to judge the results.

In Wynaad, the large clump of *Dendrocalamus Brandisii* continued to make excellent growth, the year's shoots being over 40 feet in height and 4½ inches in diameter. There are 1,016 plants of this species averaging 1½ feet in height available for planting out in "tuckles" in 1888-89.

Dendrocalamus longispathus has also grown most vigorously, the largest clumps averaging 30 feet in height with culms of 2½ inches to 3 inches in diameter. The growth of *Cephalostachyum pergracile* has been much slower, and the shoots average only 25 feet high by 1½ inches in diameter.

Beesha travancorica has grown with great vigor. Nine hundred and fourteen plants were planted during the year on the river bank. They average 5 feet in height.

Eight plants of the handsome yellow Burmah bamboo have been put out, and average 12 feet in height. The growth is most vigorous.

The Burmah bamboos in Nilambúr (*Arundinaria Brandisii* and *Dendrocalamus longispathus*) continue to grow well. The largest clump (planted in 1879) now contains about 100 stems. The large yellow bamboo clump, and the four cuttings raised by Mr. Hadfield, are doing well.

Ipecacuanha.—There are two plants in the Kanot nursery (Wynaad), averaging 6 inches in height. In Nilambúr the 20 plants which remained at the close of 1886-87 continued to do well. The Government Botanist tested one of them, and found that the yield for its age, was excellent.

Agreeably to G.O., dated 30th May 1887, Mis. No. 3082, Revenue, Mr. Lawson, the Government Botanist, put out 500 plants during the year in the Aiyravillikana teak plantation in Nilambúr. These are now 6 to 9 inches high.

Kigilia Pinnata.—The District Forest-officer, North Arcot, received some seed from the Honorable Mr. Whiteside. The seedlings raised therefrom, are growing rapidly and well.

Lancewood (*Onandra virgata*).—The twenty-five plants sent to Nilambúr in 1886-87 from the Agri-Horticultural Gardens, Madras, were planted out during the year at Panangad. Of those sent to Wynaad, only nine plants are alive and these have not done well. It is feared that the plant cannot stand the cold.

Mahogany.—In Chingleput, 210 seedlings remained at the commencement of the year. Of this number sixty were transferred to Kambakam hills, and in all sixty-six died. The remaining eighty-four are growing well, and have attained a height of 2 to 3 feet. Of the fifty Mahogany seedlings planted last year in the Homes' Gardens, forty-two are doing well, and are from 4 to 6 feet high.

There are about 100 Mahogany plants in the plantations in North Arcot. They do not grow fast, but are straight and healthy looking. The plants in South Arcot also are healthy, and they are 128 in number.

Of the 500 plants transplanted in 1886-87 in Trichinopoly, 60 have perished and 440 are alive. These range from 1¼ to 4 feet high. Out of the plants obtained from the Agri-Horticultural Gardens in 1886, 183 are in Manattattai and Kulitalai. They have suffered slightly from the late floods with a few failures. The rest, however, look healthy and are 8 feet high. Some of the tallest trees measure 11½ feet.

In Tanjore seventy-one Mahogany plants were planted in compartment No. I of the Vettangudi forest, but only twenty-four now survive, and are in good condition. The twenty-four seedlings put down last year in the nursery garden, and the sixty-nine put down in Vadithottam, show satisfactory growth. Twenty-eight seedlings were planted during the year to the south of the date garden. Two have since died, but the remaining plants are in a fairly good condition.

In Madura the condition of the mahogany plants in general, is favorably reported on, but the growth in some cases is slow. There are 1,065 plants in Tinnevelly, which have done fairly well on the whole. Some casualties have, however, taken place owing to plants being attacked by insects.

In Wynaad 198 plants were planted out near the teak plantation No. 2 at Kanot, and average 3½ feet in height. Of the four old plants in the teak plantation No. 1, the average height is eighteen feet. Of the 43 plants put out in the experimental garden, only 37 are now alive and are 7 feet high. They were severely injured by the borer. There are 24 plants in the nursery.

The largest plant is 24 feet high, by 11 inches in girth, and looks very healthy. It escaped the borer, which none of the others have done.

In Nilambúr, South Malabar, the largest mahogany tree is that planted in September 1873. It will be interesting to compare the rate of growth of this tree during the past few years.

	Height in feet.	Girth at base, in inches.	At five feet, in inches.
10th year of age, or at commencement of 1883-84	65	42	30
11th do. do. of 1884-85	67	47	34½
12th do. do. of 1885-86	69	52	41
13th do. do. of 1886-87	70	56	44
14th do. do. of 1887-88	71	60	46

This tree was never apparently attacked by the borer.

The new planting amongst the teak, suffers so much from the attacks of the borer, that Mr. Hadfield thinks we shall have to give up planting the mahogany with the teak.

Manilla Hemp (*Musa textalis*).—In South Arcot, the six plants put out in 1888 in the Forest office compound, are doing well. The largest is now in fruit. There are eight offshoots available for transplanting. The 44 plants reported to be living in Tinnevelly at the end of 1886-87, are in a healthy condition, but they do not show much increase in growth; neither have they yet flowered. In Wynaad there is a magnificent clump of this fibre-yielding plantain in the Botanical garden at Manantoddy, growing most vigorously. The suckers will be removed and planted out this year.

Olea Europea.—There are 28 plants averaging a foot in height in the nurseries in Wynaad, raised from seeds, sent by the Director of Revenue Settlement and Agriculture in 1886-87.

Peltophorum ferrugineum.—The twenty-four plants that remained alive in the Vettangudi forest, Tanjore district, at the commencement of the year, are in good condition. None of them flowered during the year.

Pithecolóbium saman.—In North Arcot, the plants in the plantations are doing well. They do not grow very fast in pure sandy soil. If they do not answer as fuel, they at least improve the soil with the quantity of leaves they shed.

There are 123 plants in South Arcot, all of which are doing well. In Malabar (Wynaad) a tree in a swamp is over 40 feet in height, by 2¼ feet in girth. One hundred and forty-two other plants average only 10 feet in height, owing to the poverty of the soil in which they are growing.

Rubber Experiments.—In Wynaad the two surviving plants of *Hevea Brazeliensis*, made exeellent growth in the experimental garden at Manantoddy, and are now over 12 feet high by three inches in diameter. Of *Ficus elastica*, 600 plants were permanently planted out in the same garden. They are healthy, but suffered from having been eaten down by stray cattle. There are 190 in the nursery. Five hundred and eighty-two plants were raised in the Kanot nurseries and planted out at Avanapoyil. These were put out in heavy shade, instead of in open "tuckles," and the result is, that the plants are very feeble. The shade will now be thinned gradually. There were thirty failures, and the existing 552 plants average 3 feet in height, by 1½ inches in girth. In Nilambúr the *Castilloa*, *Hevea Brazeliensis*, and *Ceara* are all doing very well. The one *Landolphia florida* is growing vigorously, and measures 24 feet in length.

The nurseries in the experimental garden at Manantoddy (Wynaad), are stocked with an assortment of plants. Mr. Morgan obtained seeds of *Eucalyptus* and *Conifer* from Mr. Lawson, which germinated fairly well. Some plants consisting of *logwood*, *fustic*, and *quinacum* plants,

with *ebony*, *couroupita*, and *calabash* seedlings, were also obtained from the Agri-Horticultural Society, Madras. A valuable *Sterculia*, yielding edible nuts, was received from Burma through the kindness of Dr. F. G. Shaw.

Sappan wood (*Cæsalpinia sappan*).—Two thousand seeds of this valuable dyewood were sown in "tuckles" in Wynaad. The seeds germinated without a failure, and the experiment has been a success so far. This dyewood is worth Re. 1 a tulam (32 lb.) and sells readily.

Silk.—The tasar silk has again attracted attention. Some cocoons were collected in Chingleput for the Agricultural department; and, with the view of ascertaining to what extent the worm exists, or can be increased, it has been resolved to appoint a special officer to make observations and experiments.

A few silk cocoons and larvæ were sent from Salem to the Government Central Museum.

Vateria malabarica.—The District Forest-officer, South Canara, reports that he sent some *Vateria malabarica* fruits to the Government Botanist, and to the Agri-Horticultural Society. The seeds appear to have germinated, and the seedlings to have grown well in Madras. Some candles also, made of the tallow, have been sent to the Government Botanist.

Exd. W. J. Lewis.

Annual Form No. 59-A.

Forest Department, Madras, Southern Circle.

Area of reserved forests, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput	Saidápet	Tandrai	664	..	..	..	664	..	....	
	Chingleput	Tirukalikundram	697	..	..	..	697	..	....	
		Uragadam	540	..	..	..	540	..	....	
		Madayatúr	697	..	..	..	697	..	....	
		Vandalúr	3,207	..	..	..	3,207	..	....	
	Tiruvallúr	Kámbákam	14,951	..	..	..	14,951	..	....	
		Ambakam	5,259	..	..	..	5,259	..	....	
		Sativédu	6,859	..	..	..	6,859	..	....	
		Aradúr	2,680	..	..	..	2,680	..	....	
		Kadúr	2,494	..	..	..	2,494	..	....	
		Ugumudi	2,884	..	..	..	2,884	..	....	
		Nágalápuram	..	..	8,345	..	8,345	..	G.O., Nos. 332, 332-A, dated 28th March 1887, embodied in Board's Proceedings, No. 230 (Forest), dated 23rd April 1887.	Transferred from 59-C.
		Allikuli	..	..	5,649	..	5,649	..		
		Alamadi	..	..	1,263	..	1,263	..		
		Total ..	40,932	64·0	15,257	..	56,189	87·80		
North Arcot.	Vellore, Pólúr taluk ..	Carnatic Ghúr	7,069·17	..	..	..	7,069·17	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated and surveyed.
		Ammerdi plantation	25	..	..	..	25	..		
		Ambúr fuel reserve	3,840	..	..	..	3,840	..		
		Palamadi	6,400	..	..	..	6,400	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated.
		Ambúr plantation	5	..	..	..	5	..	No. 241, F.S.G.G., dated 8th December 1884.	Demarcated and surveyed.
	Chandragiri, Chandragiri taluk.	Napier reserve	8,772	..	..	..	8,772	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated, fenced and surveyed.
		Mamandúr do.	1,776	..	..	..	1,776	..		
		Chamala do.	9,600	..	..	..	9,600	..		Demarcated.
		Panapak do.	6,400	..	..	..	6,400	..		
		Podipatla Bail	2,560	..	..	..	2,560	..		
		Gazerlamandiyam	250	..	..	..	250	..		Partly surveyed and fenced.
		Paradarámi	15,241·83	..	..	..	15,241·83	..	No. 89, F.S.G.G., dated 8th February 1887.	Demarcated and surveyed.
	Palmanér, Gudiyátam taluk.	Ambúr drug	5,760	..	..	..	5,760	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated.

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot—*cont.*	Palmanér taluk ..	Musalimadugu	9,600	..	..	..	9,600	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated.
		Basvireddipallé	10,240	..	..	..	10,240	..	No. 275, F.S.G.G., dated 2nd October 1885.	
		Peddúr	9,600	..	..	..	9,600	..	No. 158, F.S.G.G., dated 16th June 1885.	
		Palmanér	2	..	..	..	2	..	No. 158, F.S.G., dated 16th June 1885.	Fenced.
		Nagamangalam	31	..	..	..	31	..		
		Piduguvaripalle	20	..	..	..	20	..		
		Venkatagirikota	4	..	..	..	4	..		
		Bireddipalle	4	..	..	..	4	..		
	Palmanér and Gudiyátam taluks.	Martana	16,000	..	..	..	16,000	..	No. 158, F.S.G.G., dated 16th June 1885.	
		Naikanéri	6,400	..	..	..	6,400	..		Demarcated.
		Tiruvalam plantations ..	435	..	..	..	435	..		Demarcated, surveyed and fenced.
	Gudiyátam taluk ..	Virinjipuram do. ..	260	..	..	..	260	..	No. 241, F.S.G.G., dated 18th December 1884.	
		Chainúr do. ..	130	..	..	..	130	..		
		Amundi	160	..	..	..	160	..		Demarcated and fenced.
		Tandrayagunta	2	..	..	..	2	..		
	Head-quarter and Arcot taluk.	Punganúr	3,743·37	..	..	..	3,743·37	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
		Kilminnel	150	..	..	..	150	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
		Vannivedu	30	..	..	..	30	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated and fenced.
		Arkónam Sub-Magistrate's compound.	5	..	..	..	5	..		Surveyed and fenced
		Arkónam plantation	37	..	..	..	37	..		
		Total ..	124,552·37	194·62	..	..	124,552·37	194·62		
South Arcot.	No. I, Tiruvannámalai.	Annamalai forest	1,760	..	..	..	1,760	..	From 1st June 1885, F.S.G.G., dated 2nd June 1885.	Notified under section 25.
		Chinnasamudram	..	..	6,018·81	..	6,018·81	..	From 1st October 1887, F.S.G.G., dated 9th August 1887.	Transferred from 59-C.
		Mudinai	..	..	4,000·33	..	4,000·33	..		
		Perungolatúr Swamimalai ..	..	..	9,000	..	9,000	..		

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot-*cont.*	No. II, Tindivanam..	Siruvadi	..	..	3,335·31	..	3,335·31	..	From 1st December 1887, F.S G.G., dated 11th October 1887.	
		Muttakadu	..	..	3,094·76	..	3,094·76	..		
		Karai	..	..	1,345·65	..	1,345·65	..		
		Kurumbaram second bit ..	..	..	150	..	150	..		
		Kilsévûr	..	..	1,207·74	..	1,207·74	..	From 1st February 1888, F.S. G.G. dated 20th December 1887.	Transferred from 59-C.
		Saram	..	..	251·03	..	251·03	..		
		Salavadi	..	..	70	..	70	..		
		Attikuppam	..	..	150	..	150	..		
		Akshikádu	..	..	450	..	450	..		
	No. III, Villupuram ..	Gangavaram	..	..	8,740	..	8,740	..	From 1st December 1887, F.S. G.G., dated 11th Oct. 1887.	
		Total ..	1,760	2·75	37,813·63	..	39,573·63	61·83		
Salem ..	Salem	Bódamalai	5,600	..	..	..	5,600	..	....	
		Átúr ghát	3,142	..	..	..	3,142	..	....	
		Kutár	3,795	..	..	..	3,795	..	....	
		Nartenchedu extension ..	1,088	..	..	..	1,088	..	....	
		Yerimalai	3,520	..	..	..	3,520	..	....	Kariyappakombai block, of 265 acres, is fire-protected.
		Pillapallikombai, new ..	2,080	..	..	..	2,080	..	....	Pillapallikombai block, of 981 acres, is fire-protected.
		Átúr ghát extension	544	..	..	..	544	..		
		Karuvattuparai	1,800	..	..	..	1,800	..	....	Karuvattuparai block, of 837 acres, is fire-protected.
		Nartenchedu	..	..	2,400	..	2,400	..	No. 244 F.S.G.G., dated 5th July 1887.	
		Vaniyar	..	..	4,512	..	4,512	..	No. 279, F.S.G.G., dated 26th July 1887.	
		Manjavadi ghat	..	..	8,461	..	8,461	..	No. 251, F.S.G.G., 5th July 1887.	
		Ajampatti	..	..	1,920	..	1,920	..	No. 278, F.S.G.G., dated 26th July 1887.	
		Kanavoipudúr	..	..	3,200	..	3,200	..	No. 358, F.S.G.G., dated 25th October 1887.	Vadagampatti block of 1,976 acres and Kariyappakombai block, of 266 acres, are fire-protected.

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Salem—*cont.*	Lókúr	..	..	5,312	..	5,312	..	No. 358, F.S.G.G., dated 25th October 1887.	Morúr block of 799 acres and Ammanerí block of 202 acres are fire-protected.
		Kanjéri, new	..	..	4,032	..	4,032	..	No. 192, F.S.G.G., dated 17th May 1887.	Kanjiri block of 1,929 acres and Pannikaradu block of 1,523 acres are fire-protected.
		Pannikaradu (new)	..	..	4,832	..	4,832	..	No. 358, F.S.G.G., dated 25th October 1887.	Pannikaradu block, of 1,522 acres, is fire-protected.
		Mallápuram	..	..	589	..	589	..		Mallapuram block, of 587 acres, is fire-protected.
	Átúr	Bélúr	..	..	6,880	..	6,880	..	....	
		Nagúr	..	..	3,757	..	3,757	..	....	
		Varagúr	..	..	..	..	2,675	..	No. 360, F.S.G.G., dated 25th October 1887.	
		Nayakenkombai	..	..	2,880	..	2,880	..	No. 169, F.S.G.G., dated 26th April 1887.	
	Námakal	Jambútu	..	..	2,617	..	2,617	..	....	
		Puliyan Shola	..	..	..	..	5,530	..	No. 316, F.S.G.G., dated 13th September 1887.	
	Átúr and Námakal	Karavillikombai	..	..	8,755	..	8,755	..	....	
	Uttankarai	Pilapadi	..	..	8,000	..	8,000	..	....	
		Tumbakal	..	..	7,757	..	7,757	..	....	
		Chitteri	..	..	3,917	..	3,917	..	....	
		Kottapatti	..	..	8,960	..	8,960	..	....	
		Puvampatti	..	..	4,672	..	4,672	..	....	
		Chittilingi	..	..	..	..	6,880	..	No. 306, F.S.G.G., dated 23rd August 1887.	
		Singarapet	..	..	2,624	..	2,624	..	No. 257, F.S.G.G., dated 12th July 1887.	Singarapet block, of 2,624 acres, is fire-protected.
	Tirupatúr	Mangalam	..	..	6,080	..	6,080	..	....	
		Nagalutu	..	..	2,560	..	2,560	..	....	Kotúr block, of 1,213 acres, is fire-protected.
		Mambakam	..	..	9,370	..	9,370	..	....	
		Púnkulam	..	..	7,834	..	7,834	..	....	
		Madakadapa	..	..	2,048	..	2,048	..	....	
		Jálárpet	..	..	1,216	..	1,216	..	....	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Tirupatúr—*cont.*	Narasingapuram	2,048	..	..	..	2,048	..	....	
		Kalarapatti	2,016	..	..	..	2,016	..	....	
		Alangayam	..	..	11,520	..	11,520	..	No. 208, F.S.G.G., dated 31st May 1887.	
	Tirupatúr and Úttankarai.	Singarapet extension ..	..	..	7,398	..	7,398	..	No. 211, F.S.G.G., dated 31st May 1887.	
		Aiyúr	..	..	5,952	..	5,952	..	No. 120, F.S.G.G., dated 8th March 1887.	Mailgiri block, of 5,461 acres, is fire-protected.
		Marandahalli	..	..	5,824	..	5,824	..	No. 115, F.S.G.G., dated 2nd March 1887.	
		Gulhatti (new)	..	..	7,942	..	7,942	..	No. 318, F.S.G.G., dated 13th September 1887.	Gulhatti block of 3,248 acres and Kanavoikottapalli block of 371 acres are fire-protected.
		Manchi (new)	..	..	5,632	..	5,632	..	No. 152, F.S.G.G., dated 29th March 1887.	Manchi block, of 3,305 acres, is fire-protected.
		Toluvabetta	..	..	6,918	..	6,918	..	No. 204, F.S.G.G., dated 25th May 1887.	Kanavanagasundram block of 416 acres and Kanavoikottapalli block of 371 acres are fire-protected.
	Hosúr	Anchetti	..	..	8,832	..	8,832	..	No. 182, F.S.G.G., dated 10th May 1887.	
		Natrapalaiyam	..	..	10,880	..	10,880	..	No. 212, F.S.G.G., dated 31st May 1887.	
		Biligundla	..	..	14,272	..	14,272	..	No. 372, F.S.G.G., dated 15th November 1887.	
		Kestúr	..	..	11,616	..	11,616	..	No. 107, F.S.G.G., dated 22nd February 1887.	
		Bilikal	..	..	11,136	..	11,136	..	No. 214, F.S.G.G., dated 31st May 1887.	
		Malahalli	..	..	8,928	..	8,928	..	No. 303, F.S.G.G., dated 23rd August 1887.	
		Taggatti	..	..	10,432	..	10,432	..	No. 209, F.S.G.G., dated 31st May 1887.	
		Javalagiri	..	..	6,016	..	6,016	..	No. 305, F.S.G.G., dated 23rd August 1887.	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Hosúr—*cont.*	Talli	..	..	6,368	..	6,368	..	No. 255 F.S.G.G., dated 12th July 1887.	
		Denkanikóta	..	..	2,816	..	2,816	..	No. 335, F.S.G.G., dated 27th September 1887.	
	Dharmapuri	Pennagaram	..	..	10,304	..	10,304	..	No. 307, F.S.G.G., 23rd August 1887.	
	Hosúr and Dharmapuri.	Woddapatti	..	..	17,152	..	17,152	..	No. 371, F.S.G.G., dated 6th December 1887.	
	Dharmapuri and Hosúr.	Gutirayan	..	..	15,776	..	15,776	..	No. 340, F.S.G.G., dated 4th October 1887.	
	Krishnagiri	Bargúr (new)	..	..	1,920	..	1,920	..	No. 206, F.S.G.G., dated 25th May 1887.	Bargúr block, of 220 acres, is fire-protected.
		Togarapalli	..	..	901	..	901	..	No. 359, F.S.G.G., dated 25th October 1887.	Togarapalli block, of 499 acres, is fire-protected.
	Krishnagiri and Tirupatúr.	Kotúr	..	..	3,840	..	3,840	..	No. 170, F.S.G.G., dated 26th April 1887.	Pudur block of 1,069 acres, is fire-protected.
		Total	110,056	171·96	(*a*) 248,222	..	358,278	559·81		(*a*) Transferred from 59-C.
Trichinopoly.	Kulitalai	Elamanúr	117·10	..	..	..	117·10	..	....	
		Kulitalai	77·18	..	..	..	77·18	..	....	
		Manattatai	44·86	..	..	..	44·86	..	....	
		Lálápet	213	..	* 55·20	..	268·20	..	....	*As per working plan.
		Sitalavoi	160·32	..	..	..	160·32	..	....	
		Kattalai	74·35	..	..	..	74·35	..	....	
		Ténmalai	640	..	..	† 176	464	..	....	
		Minnakarudu	98	..	..	..	98	..	....	
		Panjantangi	1,543	..	..	..	1,543	..	....	
		Pettuvoitalai	137	..	..	..	137	..	....	
		Viramalai Hills	..	..	(*a*) 2,000	..	2,000	..	....	(*a*) Transferred from 59-C.
		Poiyapatti Hills	..	..	(*a*) † 639	..	639	..	....	†By actual survey.
		No. 1, Shemmalai	..	..	(*a*) 400 1,400	..	1,800	..	....	
		Pakkirikaradu	..	..	(*a*) † 65	..	65	..	....	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Kulitalai—*cont.*	Puttanatam range comprising Kuramalai, Pulamalai and Nadumalai	..	..	* 798	..	798	..	....	Of this, 500 acres transferred from 59-C.
		Surpam range	..	..	(*a*) 700 +1,065	..	1,765	..	....	* By actual survey. (*a*) Transferred from 59-C.
	Musiri	Sengattupatti	3,000	..	..	..	3,000	..	....	
		Melúr	3,000	..	..	..	3,000	..	.....	
	Perambalúr	Manalodai	4,000	..	..	..	4,000	..	....	
		Salamatti	7,000	..	..	..	7,000	..	....	
	Trichinopoly	Tuvagudi	..	..	(*a*) 1,438	..	1,438	..	No. 248, F.S.G.G., dated 5th July 1887.	
		Total	20,104·81	31·41	8,560·20	176	28,489·01	44·51		
Tanjore	Southern	Block No. II, Meltottam eastern block.	..	..	10	..	10	..	Declared under section 16 of the Madras Forest Act, *vide* G.O., dated 25th January 1888, No. 92.	
		Block No. III, Meltottam western block.	..	..	8	..	8	..		
		Total	..	..	18	..	18	·03		
North Coimbatore	Kollegál	Jadatalayhulla	361·01	..	..	..	361·01	..	No. 217, F.S G.G., dated 21st December 1883.	Sandalwood reserves demarcated, surveyed and mapped. Notified under section 25. These four blocks will be merged hereafter in larger areas of reserved forest.
		Udayárpálaiyam	296·63	..	..	..	296·63	..		
		Bailúr	1,186·39	..	..	..	1,186·39	..		
		Germalam	519·78	..	..	..	519·78	..		
	Satyamangalam	Vellamundi	12,800	..	..	..	12,800	..	No. 174, F.S.G.G., dated 7th July 1885.	Notified under section 16.
		Eastern slopes of the Nilgiris.	48,000	..	..	..	48,000	..	No. 87, F.S.G.G., dated 17th March 1886, page 193, and No. 143, F.S.G.G., dated 28th April 1886, page 409.	
		Total	63,163·81	98·69	..	..	63,163·81	98·69		

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Coimbatore.	Tunakadavu	Anaimalais .. No. I	52,480	..	..	..	52,480	..	....	
	Pónachi	Do. .. ,, II	3,140	..	..	..	3,140	..	....	
	Udamalpet	Do. .. ,, III	47,360	..	..	..	47,360	..	....	
	Polláchi and Udamalpet.	Anaimalais	133,120	..	..	..	133,120	..	....	
	Bolampatti	Bolampatti block No. I	47,680	..	..	..	47,680	..	....	
		Do. .. ,, II								
		Do. .. ,, III								
		Tadágam block ,, IV	30,720	..	..	..	30,720	..	....	
	Mettupálaiyam ..	Gopaneri block ,, V	38,200	..	..	..	38,200	..	....	
		Kempampalaiyam ,, VI								
		Nellitorai ,, VII								
		Odantorai ,, VIII	5,880	..	..	..	5,880	..	....	
		Modúr block ,, IX	3,600	..	..	..	3,600	..	....	
		Total ..	362,180	565·91	..	..	362,180	565·91		
Madura ..	No. I, Periyakulam ..	Vannatiparai	27,481·6	..	..	..	27,481·6	..	....	
		Suranganar	3,616	..	..	..	3,616	..	....	
		Mela Gúdalúr	1,280	..	..	..	1,280	..	....	
		Machakal	2,560	..	..	..	2,560	..	....	
		Kutinachiyar	640	..	..	..	640	..	....	
		Pandaratorai	300	..	..	..	300	..	....	
		Sengalvarai Ár.	5,209·6	..	..	..	5209·6	..	....	
		Pambár	4,755·2	..	..	..	4,755·2	..	....	
		Tambirankanal	250	..	..	..	250	..	....	
		Surulipatti	..	..	5,760	..	5,760	..	No. 315, F.S.G.G., dated 13th September 1887, Part I, page 730.	Transferred from 59-C and notified under section 16.
		Jungle Conservancy.								
		Virapandi	2	..	..	..	2	..		
		Tamaraikulam	1	..	..	..	1	..		
		Mélamangalam	1·5	..	..	..	1·5	..		
		Vadipatti	1	..	..	..	1	..	....	Reserved forest and tope.
		Gangavarpatti	4	..	..	..	4	..		
		Allinagaram	2	..	..	..	2	..		
		Mottanutu	2	..	..	..	2	..		
	No. II, Kodaikánal ..	Pumbarai and Vilpatti valley	13,587·2	..	..	..	13,587·2	..	....	
		Kudirai Ár	10,060·8	..	..	..	10,060·8	..	....	
		Kukal	9,644·8	..	..	..	9,644·8	..	....	
		Marudanadiyár	6,528	..	..	..	6,528	..	....	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
		Jungle Conservancy—cont.								
		Pambúkal Ár	800	..	..	..	800	..	....	
		Siruvattukádu	2,279·2	..	..	..	2,279·2	..	....	
		Kaniyankádu	3,001·6	..	..	..	3,001·6	..	....	
		Vennilai	4,800	..	..	..	4,800	..	....	
		Ariyanutukánal	64	..	..	..	64	..	....	
		Kumangovaimalai kádu ..	80	..	..	..	80	..	....	
		Peterankánal	80	..	..	..	80	..	....	
		Varattarkanal	200	..	..	..	200	..	....	
		Iruttarkanal	100	..	..	..	100	..	....	
		Nochiárkádu	200	..	..	..	200	..	....	
		Talaiar Andarkoil kádu ..	30	..	..	..	30	..	....	
		Talaiar kádu	150	..	..	..	150	..	....	
		Kadamaravu	50	..	..	..	50	..	....	
		Vilamkombai	1,600	..	..	..	1,600	..	....	
		Parappár	42	..	..	..	42	..	....	Reserved forest and plantation.
		Kadugutadikádu	..	..	1,280	..	1,280	..	No. 68, F.S.G.G., dated 28th February 1888.	Transferred from 69-C.
		Oliyanútodai	..	..	3,200	..	3,200	..	No. 70, F.S.G.G., dated 28th February 1888.	Transferred from 69-C.
Madura—*cont.*	No. II, Kodaikánal—*cont.*	Sholas on the Lower Palnis—								
		(*a*) Perumalmalai shola ..								
		(*b*) Togavarai shola ..								
		(*c*) Sirutarkanal								
		(*d*) Arankanal								
		(*e*) Kadavu shola								
		Sholas on the Upper Palnis—								
		(*a*) Tiger shola								
		(*b*) Parappar shola	2,316	..	..	..	2,316	..	....	
		(*c*) Kodaikánal								
		(*d*) Pannitutamkanal ..								
		(*e*) Gunden and Manavan sholas.								
		(*f*) Gunden shola								
		(*g*) Sandanam shola ..								
		(*h*) Fort Hamilton								
		(*i*) Mariyan shola								
		Plantations.								
		Eucalyptus	16·62	..	..	..	16·62	..	....	Reserved forest and plantation.
		Acacia	14	..	..	..	14	..	....	Reserved forest and plantation.
		Velamkombai	54·14	..	..	..	54·14	..	....	Reserved forest and plantation.

Area of reserved forests, 1887-88—*cont.*

District	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
		Jungle Conservancy.								
Madura—*cont.*	No. II, Kodaikánal—*cont.*	Kodaikánal settlement	3	..	..	..	3	..	....	Reserved forest and plantation
		Púmbarai	6	..	..	..	6	..	....	
		Virupatchi	7·15	..	..	..	7·15	..	....	Reserved forest and tope
		Sivagiripatti	1·15	..	..	..	1·15	..	....	
	No. III, Dindigul ..	Sirumalai	25,529·6	..	..	..	25,529·6	..	....	
		Mudimalai	6,086·4	..	..	..	6,086·4	..	....	
		Akkammakaradu	1,600	..	..	..	1,600	..	....	
		Kappuravalikuttu	2,560	..	..	..	2,560	..	....	
		Tonkal	3,200	..	..	..	3,200	..	....	
		Sundamalai	2,240	..	..	..	2,240	..	....	
		Tannirkaradu	1,920	..	..	..	1,920	..	....	
		Kadavakurchi	5,120	..	..	..	5,120	..	....	
		Sengattampatti	4,480	..	..	..	4,480	..	....	
		Dindigul at the junction of Trichinopoly and Karúr roads.	1	..	..	..	1	..	....	Reserved forest and tope.
		Dindigul Munsif's Court ..	·59	..	..	..	·59	..		
		Do. race-course ..	4	..	..	..	4	..		
		Kovilúr	1·19	..	..	..	1·19	..		
			·15	..	..	..	·15	..		
		Gúdalúr	1·18	..	..	..	1·18	..		
		Guvakapatti	130·52	..	..	..	130·52	..		
	No. IV, Mélúr ..	Mudugamalai	2,700	..	..	..	2,700	..	....	
		Vellamalai								
		Perumalmalai								
		Pillayarnattam Hills ..								
		Navinipatti	12	..	..	..	12	..	....	Reserved forest and tope.
	No. V, Madura ..	Alagarmalai	13,036	..	..	..	13,036	..	....	
		Tenapudupettai	126·78	..	..	..	126·78	..	....	Reserved forest and tope.
		Sakimangalam	467·94	..	..	..	467·94	..	....	
		Nagamalai	2,346	..	..	..	2,356	..	....	
		Vikramangalam	10,240	..	..	..	10,240	..	....	
		Tenúr	11·78	..	..	..	11·78	..	....	Reserved forest and tope.
		Tovarimán	21	..	..	..	21	..	....	
		Total ..	183,667·69	286·98	10,240	..	193,907·69	302·98		

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tinnevelly	Nángunéri	Reserve No. I	31,532·80	..	..	..	31,532·80	..	Constituted reserved forests under section 25, Forest Act, in G.O., No. 257, dated 11th February 1881.	
	Ambásamudram	Do. ,, II	91,008	..	..	..	91,008	..		
	Tenkási	Do. ,, III	18,009·60	..	..	..	18,009·60	..		
	Sankaranainárkoil	Do. ,, IV	19,737·60	..	..	..	19,737·60	..		
	Srívilliputur	Do. ,, V	23,270·40	..	..	..	23,270·40	..		
		Total ..	183,558·40	286·81	..	..	183,558·40	286·81		
North Malabar.	Chedlet reserved forest.	Kuppadi block	7,337·44	..	..	..	7,337·44	..	....	
		Kurchiyat ,,	18,053·86	..	..	..	18,053·86	..	....	
		Rampúr ,,	18,854·67	..	..	..	18,854·67	..	....	
	Trans Beni	Nulpoya	3,613·28	..	..	..	3,613·28	..	....	
		Mavanhulla	12,576·64	..	..	..	12,576·64	..	....	
		Bégur reserved forest	15,366	..	..	..	15,366	..	....	
		Total ..	75,801·89	118·44	..	..	75,801·89	118·44	....	
		Ernád Taluk.								
South Malabar.	Nilambúr	Karimpoya reserve	3,955·28	..	..	..	3,955·28	..	....	
		Amarampalaiyam ,,	468·04	..	..	..	468·04	..	....	
		Chatambarai ,,	699·52	..	..	..	699·52	..	....	
		Nellikutta ,,	1,824·13	..	..	..	1,824·13	..	....	
	Pálghat	Walayár ,,	3,017·00	..	..	..	3,017·00	..	....	
		Chenat Nair ,,	..	..	15,203·00	..	15,203·00	..	Finally notified under section 16, F.S.G.G., dated 5th April 1887. Transferred from 59-C.	The Pálghat range was transferred as per F.S.G.G. notification, dated 8th February 1888.
		Total ..	9,963·97	15·57	15,203·00	..	25,166·97	39·32		
South Canara.	Condapur	No. I, Sabladi	208	..	..	..	208	..	....	
	Udipi	,, II, Ajjarkad	160	..	..	..	160	..	....	
		,, III, Pillarkhan	320	..	..	..	320	..	....	

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Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Canara—*cont.*	Mangalore	Nos. IV and V, Poitagi, Kayar Palla.	96	..	..	..	96	..	....	
		No. VI, Chembugudi ..	75	..	..	..	75	..	....	
		„ VII, Kuttiyar	25	..	..	..	25	..	....	
	Uppinangadi	The Siradi Sisla reserve ..	..	..	19,200	..	19,200	..	G.O., 31st March 1887, Forest No. 46, in Board's Proceedings, Forest No. 240, dated 29th April 1887.	The areas given of these reserves is a mere estimate, as they have not been surveyed and have been transferred from 59-G.
		The Bhagimalai	..	..	6,400	..	6,400	..		
		Total ..	884	1·38	25,600	..	26,484	41·38		
		Grand Total ..	1,176,621·94	1,838·50	360,913·83	176	1,537,362·77	2,402·13		

ABSTRACT.

Chingleput..	....	....	40,932	64·0	15,257	..	56,189	87·80	....	
North Arcot.	....	....	124,552·37	194·61	..	..	124,552·37	194·62	....	
South Arcot.	....	....	1,760	2·75	37,813·63	..	39,573·63	61·83	....	
Salem ..	....	....	110,056	171·96	248,222	..	358,278	559·81	....	
Trichinopoly	....	....	20,104·81	31·41	8,560·20	176	28,489·01	44·51	....	
Tanjore ..	....	....	..	..	18	..	18	·03	....	
North Coimbatore.	....	....	63,163·81	98·69	..	..	63,163·81	98·69	....	
South Coimbatore.	....	....	362,180	565·91	..	..	362,180	565·91	....	
Madura ..	....	....	183,667·69	286·98	10,240	..	193,907·69	302·98	....	
Tinnevelly .	....	....	183,558·40	286·81	..	..	183,558·40	286·81	....	
North Malabar.	....	....	75,801·89	118·44	..	..	75,801·89	118·44	....	
South Malabar.	....	....	9,963·97	15·57	15,203	..	25,166·97	39·32	....	
South Canara.	....	....	884	1·38	25,600	..	26,484	41·38	....	
		Total ..	1,176,624·94	1,838·50	360,913·83	176	1,537,362·77	2,402·13		

Annual Form No. 59-B.

Forest Department, Madras, Southern Circle.

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882.

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Tiruvallúr	Namalúr	938	..	..	..	938	..	....	* The area was shown twice over in last year's statement and one entry is therefore now excluded.
		Palavakam	436	..	..	* 436	..	..	....	
		Kolatur	248	..	..	..	248	..	....	
		Kuvakolli	156	..	..	..	156	..	....	
		Total ..	1,778	2·78	..	436	1,342	2·10		
North Arcot ..	....	....	..	..	..	..	..	..	....	
South Arcot	No. I, Tiruvannámalai.	Annamalai kasba hill and neighbourhood	2,080	..	..	..	2,080	..	....	
		Tandrampet	11,500	..	..	..	11,500	..	....	
		Kadambai	1,000	..	..	..	1,000	..	....	
		Tachampet, including Attipakam..	1,000	..	..	..	1,000	..	....	
	No. II, Tindivanam ..	Annamangalam	250	..	..	..	250	..	....	
		Vallanad Sevúr	1,115	..	..	..	1,115	..	....	
		Nangilikondan	50	..	..	..	50	..	....	
		Natamangalam	30	..	..	..	30	..	....	
		Vilukam	100	..	..	..	100	..	....	
		Olakúr	300	..	..	..	300	..	....	
		Roshanai	50	..	..	..	50	..	....	
		Edayalam	400	..	..	..	400	..	....	
		Eriyanúr	95	..	..	..	95	..	....	
		Jaggampet	108	..	..	..	108	..	....	
		Senalúr	150	..	..	..	150	..	....	
		Mannúr	50	..	..	..	50	..	....	
		Nemmalai	300	..	..	..	300	..	....	
		Endúr	50	..	..	..	50	..	....	
		Bramhadésam	50	..	..	..	50	..	....	
		Vannipper	50	..	..	..	50	..	....	
		Nadukuppam to Bramhadésam ..	400	..	..	..	400	..	....	
		Kandadu	370	..	..	..	370	..	....	
		Omapper	20	..	..	..	20	..	....	
		Mailam	265	..	..	..	265	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. III, Villupuram..	Tandavasamudram	3,000	..	..	2,000	1,000	..	....	Transferred to 59-C.
		Matúr	540	..	..	..	540	..	....	
		Turinjikádu	1,104	..	..	700	404	..	....	Do.
		Odayanatam and Kadayam ..	1,000	..	..	..	1,000	..	....	
		Vanúr first bit	200	..	..	..	200	..	....	
		Vanúr second bit	150	..	..	..	150	..	....	
		Kalikoil	200	..	..	..	200	..	....	
		Chengadu	100	..	..	..	100	..	....	
		Vakkúr	200	..	..	200	..	..	....	Do.
		Kappianúr	545	..	..	545	..	..	....	
		Mutampalaiyam	50	..	..	..	50	..	....	
		Navamal Maradúr	80	..	..	..	80	..	....	
		Aliyúr	70	..	..	..	70	..	....	
		Neliyanúr	70	..	..	..	70	..	....	
		Valavanúr (now Gangarampalaiyam)	344	..	..	344	..	..	....	Do.
		Pakam	350	..	..	..	350	..	....	
		Sorapúr	50	..	..	..	50	..	....	
		Marudúr	70	..	..	..	70	..	....	
		Villupuram kasba tank	100	..	..	..	100	..	....	
		Valutareddi	130	..	..	130	..	..	....	Do.
		Kandampakam	60	..	..	..	60	..	....	
		Olaikai	50	..	..	..	50	..	....	
		Kappúr	50	..	..	..	50	..	....	
		Kondangi	100	..	..	..	100	..	....	
		Nannadu	100	..	..	..	100	..	....	
		Perumbákam	100	..	..	..	100	..	....	
		Dévanampet	100	..	..	..	100	..	....	
		Tiruvamatúr	28	..	..	..	28	..	....	
		Tennamadevi	51	..	..	..	51	..	....	
		Adanúr	1,449	..	..	1,449	..	..	....	Do.
		Oratúr now Sattanúr second bit ..	228	..	..	228	..	..	....	
		Tangal	57	..	..	..	57	..	....	
		Karanai	200	..	..	200	..	..	....	Do.
		Gundalapuliyúr	844	..	27	871	..	..	....	Do.
		Siruvalai (Arumbili)	1,014	..	..	..	1,014	..	....	
		Vembi	256	..	..	..	256	..	....	
		Narasinganúr	377	..	..	377	..	..	....	Do.
		Vikkravándi proper	450	..	12	312	150	..	....	
		Do. tangal	20	..	..	..	20	..	....	
		Melakondai	495	..	..	495	..	..	....	Do.

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. III, Villupuram—*cont.*	Satanúr	233	..	5	238	..	..	....	Transferred to 59-c.
		Panampattu	250	..	4	254	..	..	....	
		Saliyampalaiyam	70	..	..	..	70	..	....	
		Nemmalai	100	..	..	..	100	..	....	
		Dadavaram	200	..	..	..	200	..	....	
		Tiruvakkarai	1,000	..	..	..	1,000	..	....	
		Tuluvai	150	..	..	..	150	..	....	
	No. IV, Cuddalore	Selambanadampet	1	..	..	..	1	..	....	
		Badrakótai	344	..	..	..	344	..	....	
		Kanjiruppu	10	..	..	..	10	..	....	
		Véludayampattu	100	..	..	..	100	..	....	
		Kaliyankuppam	150	..	..	..	150	..	....	
		Kuttiyambakam	100	..	..	..	100	..	....	
		Siruvatúr	300	..	..	..	300	..	....	
	No. IV, Chidambaram.	Pichavaram	2,000	..	..	..	2,000	..	....	
		Ramapakam	800	..	..	..	800	..	....	
		Kondapuram	1,200	..	..	..	1,200	..	....	
		Pavanji Nallúr	200	..	..	..	200	..	....	
		Kollatankurchi	350	..	..	..	350	..	....	
		Nisangam	800	..	..	..	800	..	....	
		Adivaraganallúr	1,200	..	..	..	1,200	..	....	
		Kolakudi (east of road)	600	..	..	..	600	..	....	
		Pinnalúr (Wálajápet tank block)	400	..	..	..	400	..	....	
		Manamádévi	150	..	..	..	150	..	....	
		Viranam tank	1,500	..	..	..	1,500	..	....	
	No. V, Tirukovilúr	Nattamúr	9,500	..	..	..	9,500	..	....	
		Chittamur	3,000	..	..	..	3,000	..	....	
		Arunávaram	2,650	..	..	..	2,650	..	....	
		Odiyatúr	2,500	..	..	..	2,500	..	....	
		Endúr	1,000	..	..	..	1,000	..	....	
		Virinjipuram and Kandachipuram.	1,500	..	..	..	1,500	..	....	
		Adukam (Tandarai)	1,500	..	..	..	1,500	..	....	
		Atipakam	2,000	..	..	..	2,000	..	....	
		Sadakati	500	..	..	..	500	..	....	
		Swamimalai	4,000	..	..	..	4,000	..	....	
		Maradúr	2,220	..	..	..	2,220	..	....	
		Ulandúrpet (Pandúr)	2,500	..	..	..	2,500	..	....	
		Edakal proper (south of road)	900	..	..	..	900	..	....	
		Do. (north of road)	3,600	..	..	..	3,600	..	....	
		Alwarmalai	6,500	..	..	..	6,500	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. V, Tirukovilúr—*cont.*	Siruvakam	1,200	..	..	..	1,200	..	....	
		Kútadi	2,250	..	..	..	2,250	..	....	
		Sidévi	3,000	..	..	..	3,000	..	....	
		Kunjaram	1,500	..	..	..	1,500	..	....	
		Kallamédu	500	..	..	..	500	..	....	
		Elandorai (late Ponnavalam) ..	200	..	..	..	200	..	....	
		Tiruvennainullúr	40	..	..	..	40	..	....	
		Emappúr	70	..	..	..	70	..	....	
		Siruvanúr	50	..	..	..	50	..	....	
		Iruvelpet	50	..	..	..	50	..	....	
		Mélmangalam	40	..	..	..	40	..	....	
		Mamandúr	50	..	..	..	50	..	....	
		Gramam	40	..	..	..	40	..	....	
		Elandorai tank	40	..	..	..	40	..	....	
		Panapakam	50	..	..	..	50	..	....	
		Sitilingamadam	70	..	..	..	70	..	....	
		Maradúr tank bed	60	..	..	..	60	..	....	
		Pudupalaiyam	40	..	..	..	40	..	....	
		Palayagram	65	..	..	..	65	..	....	
	No. VI, Kallakurchi ..	Kanakádu	1,200	..	..	..	1,200	..	....	
		Kadambúr	100	..	..	..	100	..	....	
		Kaduvanúr	1,500	..	..	..	1,500	..	....	
		Katuvananjúr	800	..	..	..	800	..	....	
		Lálápet forest, including Chittal ..	1,500	..	..	..	1,500	..	....	
		Vengalam Pasar	3,000	..	..	..	3,000	..	....	
		Rishivendiyam	3,000	..	..	..	3,000	..	....	
		Nilamangalam	150	..	..	..	150	..	....	
		Emaputtúr	1,000	..	..	..	1,000	..	....	
		Kolatúr	300	..	..	..	300	..	....	
		Indali	1,000	..	..	..	1,000	..	....	
		Katalamalai	2,500	..	..	..	2,500	..	....	
		Nagalúr	900	..	..	..	900	..	....	
		Porasakurchi	750	..	..	..	750	..	....	
		Varansaram	450	..	..	..	450	..	....	
		Kuttakudi	1,000	..	..	..	1,000	..	....	
		Kilnariyappanúr	1,500	..	..	..	1,500	..	....	
		Varadiyappanúr	500	..	..	..	500	..	....	
		Chinna Salem	200	..	..	..	200	..	....	
		Tottapadi	250	..	..	..	250	..	....	
	No. VII, Vriddháchalam.	Velankulam and Vennakuli ..	500	..	..	..	500	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*—	No. VII, Vriddháchalam —*cont.*—	Semakotai and Palaiyapatnam ..	4,500	..	..	..	4,500	..	....	
		Pallipattu	1,500	..	..	..	1,500	..	....	
		Erulakurchi	300	..	..	..	300	..	....	
		Mélakuppankulam	600	..	..	..	600	..	....	
		Parúr	3,000	..	..	..	3,000	..	.....	
		Narimadam	600	..	..	..	600	..	....	
		Ammeri	500	..	..	..	500	..	....	
		Kuppanatam	750	..	..	..	750	..	....	
		Satamangalam	200	..	..	..	200	..	....	
		Arasuguli	100	..	..	..	100	..	....	
		Kolapákam	600	..	..	..	600	..	....	
		Kammapuram	600	..	..	..	600	..	....	
		Kannángudi	2,000	..	..	..	2,000	..	....	
		Narasingamangalam	1,200	..	..	..	1,200	..	....	
		Kotanúr	2,700	..	..	..	2,700	..	....	
		Memadúr	500	..	..	..	500	..	....	
		Pillúr	800	..	..	..	800	..	....	
		Pulambadi	2,000	..	..	..	2,000	..		
		Alambalam	2,000	..	..	..	2,000	..		
		Aderi	1,000	..	..	..	1,000	..		
		Katumailúr	800	..	..	..	800	..	....	
		Naraiyúr	3,000	..	..	..	3,000	..	....	
		Nangúr	1,800	..	..	..	1,800	..	....	
		Mangalam	300	..	..	..	300	..	....	
		Alliyúr	150	..	..	..	150	..	....	
		Pinjanúr	200	..	..	..	200	..	....	
		Kasba tank	200	..	..	..	200	..	....	
		Total ..	153,558	239·93	48	8,343	145,263	226·97	....	
Salem ..	....	.....	..	..	..	..	..	..	....	
Trichinopoly ..	Udayárpálaiyam ..	Sripurandan	486	..	..	..	486	..	....	Excluded the area having been already transferred to 59-C in 1886-87 under Velangudi u
		Nagamangalam	400	..	..	400	..	..	.....	
		Total ..	886	1·38	..	400	486	·76		

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tanjore	Northern	Vettangudi	1,900	..	..	1,900	..	..	Notified under section 4, *vide* G.O., dated 8th July 1887, No. 657.	Transferred to 59-C.
		Andrakadu	64	..	..	..	64	..		
		Settipalaiyam	421	..	..	..	421	..		
		Samudravéli	270	..	..	..	270	..	.....	
		Náluvédapadi	374	..	..	..	374	..	....	
		Nadúr	421	..	..	421	..	..	....	Transferred to 59-C
		Tachankurchi	161	..	..	161	..	..	....	
		Kollangorai	109	..	..	109	..	..	....	
		Marungulam	152	..	..	..	152	..	....	
		Karungulâm Mélpadi	389	..	..	..	389	..	....	
		Pudukudivadapatti	212	..	..	..	212	..	....	
	Southern	Kangiyampatti	67	..	..	..	67	..	....	
		Kannantangudi Kilayúr	232	..	..	..	232	..	....	
		Puvadúr	205	..	..	..	205	..	....	
		Tirumangalakotai Vilayúr	437	..	..	..	437	..	....	
		Do. Mélayúr	514	..	..	..	514	..	....	
		Ponnappúr	181	..	..	..	181	..	....	
		Apparasampétai	76	..	..	..	76	..	....	
		Pudugidapatnam	66	..	..	..	66	..	....	
		Tandalai	283	..	..	..	283	..	....	
		Ichankotai	77	..	..	..	77	..	....	
		Total	6,611	10·33	..	2,591	4,020	6·28		
North Coimbatore.	....	....	..	..	..	..	..	..	....	
South Coimbatore.	Udamalpet	Fuel reserve of Yeliyamutur	63	..	..	..	63	..	....	
		Do. of Tandoni	60	..	..	..	60	..	....	
		Do. of Dhalli	485	..	..	..	485	..	....	
		Kotamangalam	3	..	..	..	3	..	....	
		Chinnamalaipalaiyam	9	..	..	..	9	..	....	
		Gudimangalam	5	..	..	..	5	..	....	
		Pulamkinar	4	..	..	..	4	..	....	
		Púkkulam	14	..	..	..	14	..	....	
		Pulavadi	8	..	..	..	8	..	....	
		Madatukulam	3	..	..	..	3	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square meles.		
South Coimbatore—*cont.*	Pollachi	Kanatkadavu	8	..	..	..	8	..	....	
		Sankarayapuram	100	..	..	..	100	..	....	
		Mutiyampalaiyam	4	..	..	..	4	..	....	
		Periyakolandai	3	..	..	..	3	..	....	
		Kotampatti	6	..	..	..	6	..	....	
	Palladam	Arasúr	58	..	..	..	58	..	....	
		Nachipalaiyam	63	..	..	..	63	..	....	
		Ammapalaiyam	61	..	..	..	61	..	....	
		Kaduvettipalaiyam	82	..	..	..	82	..	....	
		Perumanallúr	81	..	..	..	81	..	....	
		Pudupalaiyam	66	..	..	..	66	..	....	
		Fuel reserve, Anupatti	3	..	..	..	3	..	....	
		Sittambalam	3	..	..	..	3	..	....	
		Kottanúr	3	..	..	..	3	..	....	
		Manickapuram	5	..	..	..	5	..	....	
		Tirupúr	5	..	..	..	5	..	....	
		Vadugapalaiyam	8	..	..	..	8	..	....	
		Ganapadipalaiyam	5	..	..	..	5	..	....	
		Appanaiyakanpatti	10	..	..	..	10	..	....	
		Nilambúr	10	..	..	..	10	..	....	
		Silakarakal	5	..	..	..	5	..	....	
		Agrarapudúr	5	..	..	..	5	..	....	
	Bolampatti	At the toll-gate at the road of Tadagam.	9	..	..	..	9	..	....	
		At the toll-gate east of Puliyankulam road.	55	..	..	..	55	..	....	
		Total ..	1,312	2·05	..	..	1,312	2·05	....	
Madura ..	No. V, Madura ..	One hundred and four tank beds in Tirumangalam taluk.	4,000	..	..	..	4,000	..	....	
		Total ..	4,000	6·25	..	..	4,000	6·25	....	
Tinnevelly ..	....	....	..	..	..	..	..	..	....	
North Malabar.	....	....	..	..	..	..	..	..	....	

Area of forests, 1887-88 reserved under previous orders of Government are regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Malabar.	Nilambúr	Pokóte	761	..	..	761	..	..	....	Transferred to 59.C.
		Pannangode	859	..	..	859	..	..	....	
		Valuvasheri	914	..	..	914	..	..	....	
		Yedakád	4,359	..	..	4,359	..	..	....	
		Arimbrakuta	322	..	..	322	..	..	....	
		Kanakut	669	..	..	669	..	..	....	
		Erambadam	581	..	..	581	..	..	....	
		Kariyan	1,002	..	..	1,002	..	..	....	
		Muriyat	1,765	..	..	1,765	..	..	....	
		Total ..	11,232	17·55	..	11,232	..	..		
South Canara.	....	....	..	..	..	..	..	..	....	
		Grand Total ..	179,377	280·27	48	23,002	156,423	244·41		

ABSTRACT.

Chingleput ..	....	....	1,778	2·78	..	436	1,342	2·10	....	
North Arcot ..	....	....	..	..	..	..	..	..	....	
South do. ..	....	....	153,558	239·93	48	8,343	145,263	226·97	....	
Salem ..	....	....	..	..	..	..	..	..	....	
Trichinopoly.	....	....	886	1·38	..	400	486	·76	....	
Tanjore ..	....	....	6,611	10·33	..	2,591	4,020	6·28	....	
North Coimbatore ..	....	....	..	..	..	..	..	..	....	
South Coimbatore ..	....	....	1,312	2·05	..	..	1,312	2·05	....	
Madura ..	....	....	4,000	6·25	..	..	4,000	6·25	....	
Tinnevelly ..	....	....	..	..	..	..	..	..	....	
North Malabar.	....	....	..	..	..	..	..	..	....	
South do.	....	....	11,232	17·55	..	11,232	..	..	....	
South Canara .	....	....	..	..	..	..	..	..	....	
		Total ..	179,377	280·27	48	23,002	156,423	244·41		

Annual Form No. 59-D.

Forest Department, Madras, Southern Circle.

Area of Reserved Lands, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput	Tiruvallúr	Allikuli	5,649	..	..	5,649	..	..	G.O., Nos. 332 and 332-A, dated 28th March 1887.	Transferred to 59-A.
		Nágalápuram	8,345	..	..	8,345	..	..		
		Alamadi	1,263	..	..	1,263	..	..	..	
		Palavakam	2,561	..	..	† 50	2,511	..	..	* Newly selected and included when submitting notification under sec. 4. † Excluded at settlement. ‡ Do. do. § Do. do. ‖ Do. do.
		Pulrambakam	541	..	* 36	..	577	..	G.O., No. 813, Revenue, dated 19th August 1887.	
		Mylapore	..	..	926	..	926	..		
		Vembedu	..	..	1,075	..	1,075	..		
		Vallam	1,329	..	..	‡ 1	1,328	..	G.O., Nos. 204 and 204-A, dated 19th March 1888.	
		Anjur	1,509	..	..	§ 2	1,507	..		
		Nemali	633	..	..	..	633	..	..	
		Alapakam	497	..	..	‖ 12	485	..	..	
		Tirumani	639	..	..	..	639	..	..	
		Gúdalúr	..	..	2,744	..	2,744	..	G.O., No. 164, dated 23rd February 1888.	
		Senkúndram	..	..	1,236	..	1,236	..		
		Kolatur	..	..	1,441	..	1,441	..		
		Venkatapuram	..	..	119	..	119	..	G.O., No. 222, dated 15th March 1888.	
		Tirutteri	..	..	272	..	272	..		
		Paranur	..	..	378	..	378	..		
		Kattamkolatur	..	..	537	..	537	..		
		Acharapákam	864	..	..	..	864	..	..	
		Latur	1,011	..	..	..	1,011	..	..	
	Chingleput	Nedumaram	198	..	..	..	198	..	..	
		Venmani	238	..	..	..	238	..	..	
		Madaiyambakam	241	..	..	..	241	..	..	
		Sattamai	135	..	..	..	135	..	..	
		Kattugudalur	4,273	..	..	..	4,273	..	..	
		Rajapalaiyam	806	..	..	..	806	..	..	
		Kurumbarai	250	..	..	..	250	..	..	
		Endatur	168	..	..	..	168	..	..	
		Tandalam	1,428	..	..	..	1,428	..	..	
		Sirunallur	503	..	..	..	503	..	..	
		Kannimangalam	142	..	..	..	142	..	..	
		Nariyamputur	326	..	..	..	326	..	..	
		Karukali	600	..	..	..	600	..	..	
		Kadalamangalam	731	..	..	..	731	..	..	
		Vadatavur	1,078	..	..	..	1,078	..	..	
		Vinayaganallur	127	..	..	..	127	..	..	
		Kunamkolatur	106	..	..	..	106	..	..	

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput—*cont.*	Chingleput—*cont.*	Bapanallur	538	..	..	..	538	..	..	
		Kutrambakam 601	691	..	..	..	691	..	..	
		Puduppur 90								
		Mannur	585	..	..	..	585	..	..	
		Muttukadu	86	..	..	..	86	..	..	
		Total ..	38,091	59·52	8,764	15,322	31,533	49·27		
North Arcot.	Pólúr	Kelur	3,537	..	..	..	3,537	..		
		Alliyamangalam	10,062	..	..	..	10,062	..	No. 339, *Fort St. George Gazette*, dated 4th Oct. 1887.	Demarcated.
		Kapalur	1,267	..	..	..	1,267	..		
	Arcot	Sátúr	1,048	..	..	..	1,048	..		do.
		Sennaleri	1,675	..	..	..	1,675	..	No. 225, *Fort St. George Gazette*, dated 14th June 1887.	
		Enadivadi	1,567	..	..	..	1,567	..		
		Tandalappantangal	1,112	..	..	..	1,112	..		
		Sholavaram	1,232	..	..	..	1,232	..		
	Wálajápet ..	Amur	6,020	..	..	..	6,020	..		Demarcated.
		Kolatur	1,779	..	..	..	1,779	..		Demarcated, surveyed and fenced.
		Minnel	1,378	..	..	..	1,378	..	No. 293, *Fort St. George Gazette*, dated 14th June 1887.	Partly do. do. do.
		Gúdalúr	535	..	..	..	535	..		
		Banavaram	1,051	..	..	..	1,051	..		
		Ammanur	203	..	..	..	203	..		
		Anantapuram or Uriyur	540	..	..	..	540	..		
	Wandiwash ..	Venkundram	1,288	..	..	..	1,288	..		Demarcated, surveyed and fenced
		Ponnur	939	..	..	..	939	..		
		Badur	873	..	..	..	873	..		
		Nombidu	720	..	..	..	720	..	No. 275, *Fort St. George Gazette*, dated 26th July 1887.	
		Kodiyalam	125	..	..	..	125	..		
		Nedungunam	1,797	..	..	..	1,797	..		
		Vishamangalam	1,148	..	..	..	1,148	..		
		Brahmakatari	635	..	..	..	635	..		
		Nedungal	3,645	..	..	..	3,645	..		
	Javadi	Putur	12,800	..	..	..	12,800	..	No. 207, *Fort St. George Gazette*, dated 4th June 1886.	
		Patrakad	19,200	..	..	..	19,200	..		
		Virappanur	64,000	..	..	..	64,000	..	No. 401, *Fort St. George Gazette*, dated 9th Nov. 1886.	Demarcated.
	Chittur ..	Virasettipalle	..	..	7,587	..	7,587	..		
		Chittapara including (Bramasamudram).	1,426	..	3,424	..	4,850	..		
		Basavapalle	..	..	2,027	..	2,027	..	No. 183, *Fort St. George Gazette*, dated 10th May 1887.	
		Mohimandalam	..	..	2,522	..	2,522	..		
		Pachigunta	..	..	1,800	..	1,800	..		
		Irala	6,400	..	9,730	..	16,130	..		Demarcated and surveyed.

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*cont.*	Chittur—*cont.*	Santapet	2,276	..	..	..	2,276	..	No. 183, *Fort St. George Gazette*, dated 10th May 1887.	Demarcated and surveyed.
		Chittur	360	..	..	..	360	..		
		Kinattipalle	1,417	..	..	..	1,417	..		
		Chillapalle	1,296	..	..	..	1,296	..		
		Panamúr	6,400	..	..	..	6,400	..		
	Chándragiri	Mamandúr extension	8,000	..	..	..	8,000	..	No. 326, *Fort St. George Gazette*, dated 20th September 1887.	
		Tirupati hill	16,000	..	..	..	16,000	..		
	Gudiyátam	Panamadangi	9,600	..	..	..	9,600	..	No. 242, *Fort St. George Gazette*, dated 5th July 1887.	Demarcated.
		Paradurami extension	2,500	..	..	..	2,500	..		
		Sinnagunta	6,400	..	..	..	6,400	..		
		Naickeneri extension	1,280	..	..	..	1,280	..		
		Martana	9,600	..	..	..	9,600	..		
		Vikramasi	161	..	..	..	161	..	No. 14, *Fort St. George Gazette*, dated 10th January 1888.	Do. and fenced.
	Vellore	Ambúr	25,600	..	..	..	25,600	..	No. 341, *Fort St. George Gazette*, dated 4th Oct. 1887.	Demarcated.
	Vellore and Pólúr.	Arasampet	18,000	..	..	..	18,000	..		
		Tellai	15,121	..	..	..	15,121	..	No. 401, *Fort St. George Gazette*, dated 9th November 1886.	Do. and surveyed.
	Pólúr	Malayalam reserve on the slopes of Javadi hill in the Pólúr taluk.	12,800	..	..	..	12,800	..	No. 339, *Fort St. George Gazette*, dated 4th Oct. 1887.	Demarcated.
		The slopes of Javadi hill in the Pólúr taluk including the jungle at their foot.	19,200	..	..	..	19,200	..	Board's Procs., No. 4214, dated 3rd Dec. 1884.	
	Vellore	Javadi hill block	20,400	..	..	..	20,400	..	Board's Procs., No. 939/Forest 183, dated 25th Mar. 1885.	
		Arasampet								
		Naickeneri								
	Chandragiri	Balapalle block	72,000	..	..	..	72,000	..		
		Nagapatla								
		Mungilpentla block								
		Korapatla	2,620	..	..	..	2,620	..	Board's Procs., No. 2329/Forest 436, dated 13th Aug. 1885.	
		Petlakuppam								
		Gundlapalle								
		Panamadangi								
	Wálajápet	Vedantangal	64	..	..	..	64	..		
		Balakishnapuram	63	..	..	..	63	..		
		Katupakam	145	..	..	..	145	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot —*cont.*	Wálajápet—*cont.*	Aiyal	16	..	..	..	16	..	Board's Procs., No. 2329 Forest 436, dated 13th August 1885.	* Declared unreserved lands—*vide* Board's Proceedings, Forest No. 296, dated 23rd May 1887.
		Tenkal	250	..	..	* 250	..	..		
		Banavaram	35	..	..	..	35	..		
		Head Assistant Collector's-office compound.	4	..	..	..	4	..		
		Total ..	399,610	624·39	27,090	250	426,450	666·33		
South Arcot.	No. I, Tiruvannámalai.	Chinnasamudram	6,019	..	..	6,019	..	..	..	Transferred to 59-A.
		Anandavadi	6,000	..	..	..	6,000	..	..	
		Valasamalai	7,000	..	..	..	7,000	..	..	
		Mudinai	4,000	..	..	4,000	..	..	..	Do. do.
		Kavutumalai	6,000	..	..	..	6,000	..	..	
		Tippakádu	6,002	..	..	..	6,002	..	..	
		Perungolatúr Swamimalai	9,000	..	..	9,000	..	..	..	Do. do.
		Tenmalai	20,000	..	..	..	20,000	..	..	
		Pelamaratúr or Gerugamandiyar ..	8,000	..	..	..	8,000	..	..	
		Nallapattu	7,000	..	..	..	7,000	..	..	
	No. II, Tindivanam.	Siruvadi	3,335	..	..	3,335	..	..	..	Do. do.
		Muttakadu	3,095	..	..	3,095	..	..	..	
		Kárai	1,346	..	..	1,346	..	..	..	
		Padipallam	3,735	..	13	..	3,748	..	..	
		Pakamalai	9,032	..	..	..	9,032	..	..	
		Agaram	601	..	..	..	601	..	..	
		Merkánam	81	..	..	..	81	..	..	
		Kurumbaram, 1st bit	300	..	..	..	300	..	..	
		Do. 2nd bit	150	..	..	150	..	..	..	Do. do.
		Kumalampet	1,222	..	..	..	1,222	..	..	
		Kilsevúr	1,208	..	..	1,208	..	..	..	Do. do.
		Panchalam	1,200	..	..	..	1,200	..	..	
		Bomnatur	300	..	2	..	302	..	..	
		Peradikuppam	1,402	..	..	..	1,402	..	..	
		Akkúr	1,200	..	..	..	1,200	..	..	
		Naduvandúr	2,808	..	..	..	2,808	..	..	
		Sáram	251	..	..	251	..	..	..	Do. do.
		Sálavadi	70	..	..	70	..	..	..	
		Jaggampet	300	..	..	..	300	..	..	
		Attikuppam	150	..	..	150	..	..	..	Do. do.
		Akshikádu	450	..	..	450	..	..	..	
	No. III, Villupuram.	Gangavaram	8,740	..	..	8,740	..	..	..	

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*cont.*	No. III, Villupuram—*cont.*	Nabob's tope	..	..	40	..	40	..	..	Transferred from 61 tope list.
		Panampattu	..	..	254	..	254	..	..	
		Valudareddi	..	..	130	5	125	..	..	
		Kappiyambuliyúr	..	..	545	38	507	..	..	
		Gangarampálaiyam	..	..	344	2	342	..	..	
		Vakkúr	..	..	200	7	193	..	..	
		Vikravándi	..	..	311	..	311	..	..	
		Mélakondai	..	..	495	..	495	..	..	Transferred from 59-B.
		Satanúr	..	..	238	14	224	..	..	
		Narasinganúr	..	..	377	..	377	..	..	
		Gundalapuliyúr	..	..	871	..	871	..	..	
		Karanai	..	..	200	..	200	..	..	
		Satanúr, 2nd bit	..	..	228	..	228	..	..	
		Adanúr	..	..	1,449	2	1,447	..	..	
		Ariyalúr	..	..	350	..	350	..	..	Do. from 59-D.
		Turinjikádu	..	..	700	..	700	..	..	Do. from 59-B.
		Pulanjimalai	..	..	450	12	438	..	..	Do. from 59-D.
		Tandavasamudram	..	..	2,000	..	2,000	..	..	Do. from 59-B.
	No. IV, Cuddalore.	Ramapuram	1,325	..	5	..	1,330	..	..	
		Vellakarai	1,600	..	4	..	1,604	..	..	
		Valudalampattu	900	..	..	..	900	..	..	
		Sammattikuppam	350	..	..	..	350	..	..	
		Selambanádampet	650	..	..	..	650	..	..	
		Vadakuttu, 3rd bit, or Maringur forest	400	..	..	..	400	..	..	
		Vadakuttu, 2nd bit, or Vegakottai forest	600	..	..	..	600	..	..	
		Vadakuttu proper, 1st bit	2,400	..	..	1	2,399	..	..	
		Veludiyampet	1,700	..	..	1	1,699	..	..	
		Peramatur	1,700	..	..	..	1,700	..	..	
		Kangiruppu, 1st bit	2,000	..	..	..	2,000	..	..	
		Kangiruppu, 2nd bit	1,240	..	..	..	1,240	..	..	
		Velanguppam	1,000	..	..	..	1,000	..	..	
		Talangoda	200	..	1	..	201	..	..	
		Fort Saint David	45	..	..	..	45	..	..	
		Shanankuppam	195	..	..	..	195	..	..	
		Donitorai	120	..	6	37	89	..	..	
		Nochikádu	550	..	..	..	550	..	..	
		Periyakuppam	1,600	..	..	1	1,599	..	..	
		Total ..	138,572	216·52	9,213	37,934	109,851	171·64		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem ..	Námakal	Puliyan shola	5,530	..	..	5,530	..	..	No. 316, *Fort St. George Gazette*, dated 13th Sept. 1887	
	Atúr	Varagur	2,675	..	..	2,675	..	..	No. 300, *Fort St. George Gazette*, dated 25th Oct 1887.	Transferred to 59-A
		Nayakenkombai	2,880	..	..	2,880	..	..	No. 169, *Fort St. George Gazette*, dated 26th Apl. 1887.	
		Pattimedu	3,046	..	..	..	3,046	..		
		Nagalur	6,138	..	..	..	6,138	..		
		Tumbal	3,680	..	..	..	3,680	..		
		Pillapadi	4,992	..	..	..	4,992	..		
		Mallapuram ghât	2,285	..	..	..	2,285	..		
		Nartenchedu	2,400	..	..	2,400	..	..	No. 244, *Fort St. George Gazette*, dated 5th July 1887.	
		Vaniyar	4,512	..	..	4,512	..	..	No. 279, *Fort St. George Gazette*, dated 26th July 1887.	Do
		Manjavadi ghât	8,461	..	..	8,461	..	..	No. 251, *Fort St. George Gazette*, dated 5th July 1887.	
		Mallapuram ghât extension ..	640	..	..	..	640	..		
		Ajjampatti	1,920	..	..	1,920	..	..	No. 278, *Fort St. George Gazette*, dated 26th July 1887.	
		Kanavaipudur	3,200	..	..	3,200	..	..	No. 358, *Fort St. George Gazette*, dated 25th Oct. 1887.	
		Lokur	5,312	..	..	5,312	..	..	Do. do.	
		Kanjeri (new)	4,032	..	..	4,032	..	..	No. 192, *Fort St. George Gazette*, dated 17th May 1887.	Do.
	Salem	Pannikaradu (new)	4,832	..	..	4,832	..	..	No. 358, *Fort St. George Gazette*, dated 25th Oct. 1887.	
		Mallapuram	589	..	..	589	..	..	Do. do.	
		Kurumbapatti	10,000	..	..	..	10,000	..		
		Vanavasi	..	..	9,000	..	9,000	..		
		Ramaswamymalai	..	..	3,000	..	3,000	..		
		Gundakal	..	..	4,000	..	4,000	..		
		Manukonda	..	..	5,500	..	5,500	..		
		Puliyankad	..	..	1,000	..	1,000	..		
		Arasankad	..	..	2,500	..	2,500	..		
		Kaputu	..	..	3,500	..	3,500	..	No. 267, *Fort St. George Gazette*, dated 19th July 1887.	
		Madikotai	..	..	3,500	..	3,500	..		
		Pungamadevi	..	..	2,500	..	2,500	..		
		Godumalai	..	..	7,000	..	7,000	..		
		Jallutu	..	..	12,000	..	12,000	..		
		Pudupatti	..	..	7,500	..	7,500	..		
		Kanjamalai	..	..	4,500	..	4,500	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Salem—*cont.*	Nagaramalai	..	..	1,280	..	1,280	..	No. 268 *Fort St. George Gazette*, dated 19th July 1887.	
		Yercaud lake	..	..	22	..	22	..		
		Mary land	..	..	400	..	400	..		
		Kudimadavu	4,307	..	..	..	4,307	..	No. 3812, dated 17th Nov. 1887, in *Salem District Gazette*, Forest Sheet, dated 1st December 1887, No. 12.	
		Yelatur	..	..	2,000	..	2,000	..		
		Vellampatti	..	..	3,500	..	3,500	..		
		Kurichi	..	..	2,300	..	2,300	..		
		Mallur	..	..	5,000	..	5,000	..		
		Chittilingi	6,880	..	..	6,880	..	..	No. 306, *Fort St. George Gazette* 23rd August 1887.	Transferred to 59-A.
	Uttankarai	Ammapalaiyam	9,216	..	..	..	9,216	..		
		Singarapet	2,624	..	..	2,624	..	..	No. 257, *Fort St. George Gazette*, dated 12th July 1887.	Do.
		Nochikóttai	7,917	..	..	..	7,917	..		
		Kalnad	4,320	..	..	..	4,320	..		
		Karungal	4,320	..	..	..	4,320	..		
		Uttankarai (new)	3,200	..	..	..	3,200	..		
		Wonnagiri	2,944	..	..	..	2,944	..	....	Uttankarai block of 469 acres is specially protected.
		Kallávi	4,160	..	..	..	4,160	..		
		Payapatti	3,488	..	..	..	3,488	..		
		Morappúr	4,000	..	..	..	4,000	..	....	Harúr block of 1,176 acres is specially protected.
		Harúr (new)	1,901	..	..	..	1,901	..		
		Tirtamalai	11,046	..	..	..	11,046	..		
		Vepampatti	8,640	..	..	..	8,640	..		
		Kalladipatti	2,912	..	..	..	2,912	..		
		Tenkaraikotta	2,368	..	..	..	2,368	..		
		Kowramalai	8,512	..	..	..	8,512	..		
	Tirupatúr and Uttankarai.	Singarapet extension	7,398	..	..	7,398	..	..	No. 211, *Fort St. George Gazette*, dated 31st May 1887.	Transferred to 59-A.
	Hosúr	Govindapuram	3,104	..	..	..	3,104	..		
		Aiyúr	5,952	..	..	5,952	..	..	No. 120, *Fort St. George Gazette*, dated 8th March 1887.	Do.
		Marandahalli	5,824	..	..	5,824	..	..	No. 115, *Fort St. George Gazette*, dated 2nd Mar. 1887.	
		Gulhatti (new)	7,942	..	..	7,942	..	..	No. 318, *Fort St. George Gazette*, dated 13th Sept. 1887.	
		Manchi (new)	5,632	..	..	5,632	..	..	No. 152, *Fort St. George Gazette*, dated 29th Mar. 1887.	
		Javalagiri	6,016	..	..	6,016	..	..	No. 305, *Fort St. George Gazette*, dated 23rd Aug. 1887.	
		Talli	6,368	..	..	6,368	..	..	No. 255, *Fort St. George Gazette*, dated 12th July 1887.	

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Salem—*cont.*	Hosúr—*cont.*	Naganúr	3,200	..	..	..	3,200	..		
		Denkanikóta	2,816	..	..	2,816	..	..	No. 335, *Fort St. George Gazette*, dated 27th Sept. 1887.	Transferred to 59-A.
		Toluvabetta	6,918	..	..	6,918	..	..	No. 204, *Fort St. George Gazette*, dated 25th May 1887.	
		Anchetti	8,832	..	..	8,832	..	..	No. 182, *Fort St. George Gazette*, dated 10th May 1887.	
		Natrapalaiyam	10,880	..	..	10,880	..	..	No. 212, *Fort St. George Gazette*, dated 31st May 1887.	
		Biligundla	14,272	..	..	14,272	..	..	No. 372, *Fort St. George Gazette*, dated 15th Nov. 1887.	
		Kestúr	11,616	..	..	11,616	..	..	....	
		Bilikal	11,136	..	..	11,136	..	..		Do. do
		Malahalli	8,928	..	..	8,928	..	..		
		Taggatti	10,432	..	..	10,432	..	..	....	
		Hulibunda	7,360	..	..	..	7,360	..		
		Pani	5,856	..	..	..	5,856	..		
		Kundukota	4,768	..	..	..	4,768	..		
		Sivanahalli	4,992	..	..	..	4,992	..		
	Hosúr and Dharmapuri.	Woddapatti	17,152	..	..	17,152	..	..	....	Do. do.
	Dharmapuri	Pennagaram	10,304	..	..	10,304	..	..	No. 307, *Fort St. George Gazette*, dated 23rd Aug. 1887.	Do. do.
	Dharmapuri and Hosúr	Morappúr	17,840	..	..	..	17,840	..		
		Gutirayan	15,776	..	..	15,776	..	..	No. 340, *Fort St. George Gazette*, dated 4th Oct. 1887.	Do. do.
	Krishnagiri	Maharajagadai	10,304	..	..	..	10,304	..		
		Neralkotta	7,040	..	..	..	7,040	..		
		Bargúr (new)	1,920	..	..	1,920	..	..	No. 206, *Fort St. George Gazette*, dated 25th May 1887.	
		Togarapalle	901	..	..	901	..	..	No. 359, *Fort St. George Gazette*, dated 25th May 1887.	
	Krishnagiri and Tirpatúr	Kotúr	3,840	..	..	3,840	..	..	No. 170, *Fort St. George Gazette*, dated 26th Apl. 1887.	Do. do.
		Alangayam	11,520	..	..	11,520	..	..	No. 208, *Fort St. George Gazette*, dated 31st May 1887.	
	Tirupatúr	Vellakuttai	..	..	1,152	..	1,152	..	No. 319, *Fort St. George Gazette*, dated 13th Sept. 1887.	
		Kotanur	7,257	..	..	..	7,257	..		
		Garagamandi	1,280	..	..	..	1,280	..		
		Madagatar	3,200	..	..	..	3,200	..		
		Andiyappanur	4,704	..	..	..	4,704	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Tiruchengód .. Tirupatúr and Krishnagiri.	Pakkanad	7,000	..	..	* 2,500	4,500	..		* Since notified as reserve forest cut out during demarcation.
		Suriyamalai	7,500	..	..	* 2,500	5,000	..		
		Nandibanda	..	..	2,500	..	2,500	..	No. 246, *Fort St. George Gazette*, dated 5th July 1887.	
		Total ..	457,659	715·09	83,654	253,222	288,091	450·14		
Trichinopoly.	Trichinopoly ..	Tuvagudi	1,438	..	..	1,438	..	..	No. 248, *Fort St. George Gazette*, dated 5th July 1887.	Transferred to 59-A.
		Ettarai	483	..	..	..	483	..		
		Adavatúr, No. I	370	..	..	..	370	..		
		Do. „ II	331	..	..	..	331	..		
		Valúr	382	..	..	..	382	..		
		Kotapatti	211	..	..	..	211	..		
		Natarajapuram	109	..	..	..	109	..		
		Alandúr	149	..	..	..	149	..		
		Adavatúr	144	..	..	..	144	..	....	Tank beds. Transferred from No. II range.
		Punganúr	281	..	..	..	281	..		
		Viramalai hills	2,000	..	..	2,000	..	..	....	Transferred to 59-A.
		Poiyapatti hill	639	..	..	639	..	..		
		Shemmalai, No. I	400	..	..	400	..	..	....	65 acres transferred to 59-A and the rest found deficient in survey.
		Pakkirikaradu	300	..	..	300	..	..		
	Kulitalai ..	Puttanatam range	500	..	..	500	..	..	No. 248, *Fort St. George Gazette*, dated 5th July 1887.	Transferred to 59-A.
		Surpam range	700	..	..	700	..	..		
		Shemmalai, No. II	500	..	(*a*)924	..	1,424	..	....	(*a*) By survey.
		Maradúr	180	..	..	..	180	..		
		Maiyanúr	50	..	..	..	50	..		
		Pudúr	141	..	(*a*) 2	..	143	..		
		Sekkanam	119	..	..	..	119	..		
		Mahadanapuram	191	..	..	..	191	..		
		Pillapalaiyam	11	..	..	..	11	..		
		Vengampatti	102	..	..	..	102	..		
		Punjantangi hill valley	286	..	..	(*b*) 24	262	..	....	(*b*) By Settlement-officer.
		Tani and Sengamakaradu ..	800	..	..	(*a*) 100	700	..		
		Mudalaimalai	500	..	..	(*c*) 200	300	..	....	(*c*) By computation from village plan.
		Karúppúr Reddipatti hill	2,000	..	(*c*) 2,254	..	4,254	..		
	Musiri ..	Omandúr	320	..	..	..	320	..		
		Tolayanatam and Kotrapatti ..	333	..	..	..	333	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Trichinopoly—*cont.*	Musiri—*cont.*	Tirutalaiyúr	125	..	..	..	125	..		
		Yedumalai	959	..	..	..	959	..		
		Vellakalpatti	1,224	..	..	..	1,224	..		
		Pulivalam	522	..	..	..	522	..		
		Mavalipatti	1,010	..	..	..	1,010	..		
		Visálatchyammal Samudram	138	..	..	..	138	..		
		Kaliammankovil tittu	1,500	..	..	..	1,500	..		
		Karuppakadu tittu	2,000	..	..	..	2,000	..		
		Kanapadi Kannimar solai	2,560	..	..	..	2,560	..		
		Silaiyúr	1,600	..	..	..	1,600	..		
		Valaiyúr	3,480	..	..	..	3,480	..		
		Munmalai, Kanjúrmalai and Uduvampattimalai	3,000	..	..	..	3,000	..		
		Kanapadi (Temparanád)	12,000	..	..	..	12,000	..		
		Kanapadi (Vunnád)	10,000	..	..	..	10,000	..		
		Palamalai	15,000	..	..	..	15,000	..		
		Kannam	194	..	..	..	194	..		
	Perambalúr	Kotavasal	167	..	..	..	167	..		
		Koraipadai	221	..	..	..	221	..		
		Sengatúr	10,000	..	..	..	10,000	..		
		Valaiyúr	3,000	..	..	..	3,000	..		
		Semmalai	5,000	..	..	..	5,000	..		
		Puliyúr	10,000	..	..	..	10,000	..		
		Udumbiyam	..	..	500	..	500	..	Bd.'s Procs., Forest No. 178, dated 24th March 1887.	
		Periyavenmani	..	..	138	..	138	..		
		Tondapadi	..	..	276	..	276	..		
		Anukúr	..	..	487	..	487	..		
		Malvoy	..	..	264	..	264	..		
		Nossiyam	..	..	152	..	152	..		
		Padu Vellakudi	..	..	113	..	113	..		
		Kallakudi	..	..	123	..	123	..		
		Attiyúr	..	..	98	..	98	..		
		Veppantottai	..	..	213	..	213	..		
		Pasumbalúr Terkukarai	..	..	148	..	148	..		
		Pasumbalúr Vadakarai	..	..	240	..	240	..		
		Nunne	..	..	175	..	175	..		
		Kolatúr	..	..	116	..	116	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Perambalúr—*cont.*	Orgalur	..	..	190	..	190	..	Board's Proceedings, Forest No. 178, dated 24th Mar. 1887.	
		Sirukudal	..	..	166	..	166	..		
		Saturpakam	..	..	352	..	352	..		
		Kelapuliyur	..	..	228	..	228	..		
		Neikuppai, No. I	..	..	154	..	154	..		
		Do. ,, II	..	..	90	..	90	..		
		Yesanai	..	..	113	..	113	..		
		Peramattur	..	..	658	..	658	..		
		Mavalingai	..	..	260	..	260	..		
		Pulambadi, No. I	..	..	222	..	222	..		
		Do. ,, II	..	..	645	..	645	..		
		Do. ,, III	..	..	133	..	133	..		
		Viswakudi	..	..	150	..	150	..		
		Mattavarai	..	..	283	..	283	..		
		Araiyúr, No. I	..	..	290	..	290	..		
		Do. ,, II	..	..	140	..	140	..		
		Ladapuram	..	..	103	..	103	..		
		Sittali	..	..	404	..	404	..		
		Suniya Vadakarai	..	..	268	..	268	..		
		Nattapur	..	..	175	..	175	..		
		Makurumbalur	..	..	269	..	269	..		
		Satanavadi	..	..	214	..	214	..		
		Vengalam	..	..	360	..	360	..		
		Kalpadai	..	..	300	..	300	..		
		Venparur	..	..	1,024	..	1,024	..		
		Paravai	..	..	150	..	150	..		
		Nergunam	..	..	1,253	..	1,253	..		
		Tevaiyur	..	..	253	..	253	..		
		Metupálaiyam	..	..	539	..	539	..		
		Elambalur	..	..	214	..	214	..		
		Maravattur	..	..	261	..	261	..		
		Kanakasittur	..	..	310	..	310	..		
		Periyur	..	..	856	..	856	..		
		Vannarapundi	..	..	214	..	214	..		
		Tiruvalandurai	..	..	197	..	197	..		
		Bramhadesam	..	..	273	..	273	..		
		Kurumbalur	..	..	366	..	366	..		
		Nambakurchi, No. I	..	..	328	..	328	..		
		Do. ,, II	..	..	165	..	165	..		
		Kilarasur	..	..	207	..	207	..		
		Kilakarai	..	..	119	..	119	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Perambalúr-*cont.*	Yeraiyur and Naduvasal	..	..	562	..	562	..	Board's Proceedings, Forest No. 178, dated 24th March 1887.	
		Naduvasal	..	..	176	..	176	..		
		Sirumatur	..	..	499	..	499	..		
	Udaiyárpálaiyam	Jayankondacholapuram, No. I ..	80	..	..	..	80	..		
		Do. ,, II ..	250	..	..	..	250	..		
		Vanavallur	250	..	..	..	250	..		
		Malangankudisempu	100	..	..	..	100	..		
		Kodukur	150	..	..	..	150	..		
		Kanjuli	800	..	..	..	800	..		
		Aíyur	1,320	..	..	..	1,320	..		
		Tirukanam	700	..	..	..	700	..		
		Pasikulam	100	..	..	..	100	..		
		Adanakurchi	250	..	..	..	250	..		
		Sittadaiar	50	..	..	..	50	..		
		Kulamur	200	..	..	..	200	..		
		Periyakurchi	150	..	..	..	150	..		
		Sattambadi	800	..	..	..	800	..		
		Alvoy	300	..	..	..	300	..		
		Ambapur	200	..	..	..	200	..		
		Ulliyagudi	200	..	..	..	200	..		
		Sundreswarapuram	150	..	..	..	150	..		
		Periyapalaiyam	951	..	..	..	951	..		
		Vettiyarvettu	460	..	..	..	460	..		
		Kovilur	640	..	..	..	640	..		
		Mudukulam	1,170	..	..	..	1,170	..		
		Velangudi	890	..	..	..	890	..		
		Total ..	107,831	168·49	20,356	6,301	121,886	190·46		
Tanjore ..	Northern ..	Vettangudi	..	..	1,900	..	1,900	..	Notified under section 4 of the Madras Forest Act—*vide* G.O., dated 8th July 1887, No. 657.	Transferred from 59-C.
		Valadalaigudi (Northern casuarina).	..	..	350	..	350	..		
		Do. (Southern do.) ..	..	..	250	..	250	..		
		Naduvasal	..	..	42	..	42	..		
	Southern ..	Kodiyakadu (Point Calimere) ..	4,355	..	..	..	4,355	..	Notified under section 4, *vide* G.O., dated 22nd January 1887, No. 69.	Of this, 421 acres were transferred from 59-B.
		Nadur, No. I	..	..	1,000	..	1,000	..	Notified under section 4, *vide* G.O., dated 24th June 1887, No. 608.	
		Do. ,, II	..	..	200	..	200	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Coimbatore.	Southern—*cont.*	Tachenkurchi	..	..	320	..	320	..	Notified under section 4, *vide* G.O., dated 24th June 1887, No. 608.	Of this, 161 acres were transferred from 59-B.
		Kollangarai	..	..	458	..	458	..		Of this, 109 acres were transferred from 59-B.
		Viralipatti Northern block ..	..	..	145	..	145	..		
		Do. Southern ,, ..	..	..	234	..	234	..		
		Kallupatti	..	..	85	..	85	..		
		Putur, No. I	..	..	191	..	191	..		
		Do. ,, II	..	..	119	..	119	..		
		Manakádu	..	..	120	..	120	..		
		Talanáyer	..	..	2,000	..	2,000	..		Transferred from 59-D.
		Tillaivilagam	..	..	320	..	320	..		Of this, 1,200 acres were transferred from 59-D.
		Edangankotai	..	..	200	..	200	..		
		Total ..	4,355	6·80	7,934	..	12,289	19·20		
	Erode taluk ..	Reserved lands, Erode	27,927	..	..	..	27,927	..	Board's Proceedings, $\frac{3513}{F.\ 323}$, dated 10th October 1884.	
	Karúr ,, ..	Do. do. Karúr	3,627	..	..	..	3,627	..	Board's Proceedings, $\frac{2203}{F.\ 420}$, dated 28th July 1885.	
	Satyamangalam ..	Block Nos. III and IV	224,000	..	* 76,800	..	300,800	..		*The result of Mr. Hayne's rectification of Mr. Peet's incorrect figures given in previous year.
	Kollegál	Block Nos. I, II and III	249,600	..	* 348,160	..	597,760	..		
	Bhavání	Block No. I	140,800	..	* 102,400	..	243,200	..		
		Total ..	645,954	1009·30	527,360	..	1,173,314	1833·30		
South Coimbatore.	Sholakarai, Coimbatore taluk.	Small Sholakarai reserve	81	..	..	..	81	..		
	Palladám taluk.	Alatúr	237	..	..	..	237	..		
		Ammapalaiyam	119	..	..	..	119	..		
		Arasúr	94	..	..	..	94	..		
		Asanellipalaiyam	160	..	..	..	160	..		
		Avanáshi	55	..	..	..	55	..		
		Ichipatti	639	..	..	..	639	..		
		Iduvai	125	..	..	..	125	..		
		Itiverampalaiyam	581	..	..	..	581	..		
		Kadirampalaiyam	188	..	..	..	188	..		
		Káduvettipalaiyam	80	..	..	..	80	..		
		Kalipalaiyam	123	..	..	..	123	..		
		Kandampalaiyam	92	..	..	..	92	..		
		Kaniyampalaiyam	156	..	..	..	156	..		
		Kaniyúr	820	..	..	..	820	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres	Acres.	Acres.	Equivalent in square miles.		
South Coimbatore —*cont.*	Palladam taluk—*cont.*	Karadibavi	50	..	..	..	50	..		
		Karaipudúr	92	..	..	..	92	..		
		Karavalur	522	..	..	..	522	..		
		Kurumbapalaiyam	299	..	..	..	299	..		
		Korumatampatti	306	..	..	..	306	..		
		Kodangipalaiyam	121	..	..	..	121	..		
		Kuppandapalaiyam	69	..	..	..	69	..		
		Kuttagam	582	..	..	..	582	..		
		Mangarasuvalaiyapalaiyam ..	271	..	..	..	271	..		
		Moparipalaiyam	163	..	..	..	163	..		
		Naranapuram	556	..	..	..	556	..		
		Narayampalli	51	..	..	..	51	..		
		Nilambúr	113	..	..	..	113	..		
		Papakulam	103	..	..	..	103	..		
		Paruvai	76	..	..	..	76	..		
		Pattampalaiyam	126	..	..	..	126	..		
		Perumanallur	159	..	..	..	159	..		
		Perunkarunaipalaiyam	53	..	..	..	53	..		
		Pudupalaiyam	793	..	..	..	793	..		
		Pulippar	72	..	..	..	72	..		
		Puluvapatti	111	..	..	..	111	..		
		Pumalur	291	..	..	..	291	..		
		Rakkiyapalaiyam	278	..	..	..	278	..		
		Samalapuram	52	..	..	..	52	..		
		Settipalaiyam	159	..	..	..	159	..		
		Senneripalaiyam	75	..	..	..	75	..		
		Sokkanur	132	..	..	..	132	..		
		Sukkampalaiyam	479	..	..	..	479	..		
		Tandagarampalaiyam	83	..	..	..	83	..		
		Tattanur	290	..	..	..	290	..		
		Tekkalur	389	..	..	..	389	..		
		Taranallur	82	..	..	..	82	..		
		Tulukamutur	60	..	..	..	60	..		
		Uppilipalaiyam	99	..	..	..	99	..		
		Vadugapalaiyam	57	..	..	..	57	..		
		Do.	293	..	..	..	293	..		
		Vallipuram	52	..	..	..	52	..		
		Velampalaiyam	81	..	..	..	81	..		
		Do.	75	..	..	..	75	..		
		Virapandi	175	..	..	..	175	..		
		Total ..	11,440	17·87	..	..	11,440	17·87		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura ..	No. I, Periyakulam.	Kombai	6,400	..	..	..	6,400	..		
		Surulipatti	5,760	..	..	5,760	..	..	No. 315, *Fort St. George Gazette*, dated 13th September 1887.	Transferred to 59-A.
		No. I, Vellaikaradu	965	..	..	..	965	..		
		,, II, Sonaikaradu	182	..	..	..	182	..		
		,, III, Mottaikaradu	192	..	..	..	192	..		
		,, IV, Kuttaikaradu	125	..	..	..	125	..		
		,, V, Nagamalaikaradu ..	118	..	..	..	118	..		
		,, VI, Perumalkovilkaradu ..	573	..	..	..	573	..		
		,, VII, Sanniyasikovilkaradu ..	283	..	..	..	283	..		
		Murugamalai F.F.R.	3,226	..	..	..	3,226	..		
		Amburuvi	..	..	3,840	..	3,840	..		Notified under section 4, dated 26th April 1887.
		Karugal Dhoni Médu	..	..	2,560	..	2,560	..		
		Adukam	..	..	3,200	..	3,200	..		
		The southern slopes of the Palni hills.	25,600	..	..	..	25,600	..		
		The eastern slopes of the Palni hills.								
		The northern slopes of the Palni hills.	..	..	16,000	..	16,000	..		
		All the lands on the Lower Palni hills lying outside the limits of certain cultivable waste selected and set apart.	32,000	..	..	..	32,000	..		
	No. II, Kodaikánal.	Manjakaraikadu	1,600	..	..	..	1,600	..		
		Vanjankanal								
		Alayadikanal								
		Checkodikanal								
		Kadugatadikadu								
		Koviladikanal								
		Kumalarakadu								
		Talakodikadu								
		Tirukuttikadu								
		Ponvettukanal								
		Periyasolaikadu								
		Polyapattimalai								
		Elamalai								
		Nadumbaraikadu								
		Perumalmalai	12,800	..	..	..	12,800	..		
		Arunkanal	2,560	..	..	..	2,560	..		
		Kallar	9,600	..	..	..	9,600	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II, Kodaikánal—*cont.*	Kadugutadi kádu	1,280	..	..	1,280	..	..	No. 68, *Fort St. George Gazette*, dated 28th Feb. 1888.	Transferred to 59-A.
		Oliyanutu odai	3,200	..	..	3,200	..	..	No. 70, *Fort St. George Gazette*, dated 28th Feb. 1887.	
		Unjal nachi	..	..	157	..	157	..	No. 334, *Fort St. George Gazette*, dated 27th Sept. 1887, Part I, pages 766 and 767 notified under section 4.	
		Kokkuparai	..	..	130	..	130	..		
	No. III, Dindigul and No. IV, Melúr.	Karandamalais	22,400	..	..	..	22,400	..		
		Panjantangi hills	3,200	..	..	..	3,200	..		
		Chembulimalai	..	..	1,600	..	1,600	..	Notified under section 4, No. 47, *Fort St. George Gazette*, dated 14th Feb. 1888, Part I, page 112.	Transferred from 59-D.
		Mottamalai	..	..	1,280	..	1,280	..		
		Perumalai	..	..	2,560	..	2,560	..		
		Pulamalai	..	..	1,920	..	1,920	..		
		Budagudimalai	..	..	1,600	..	1,600	..		
	No. V, Madura.	Waggatumalai F. F. R.	4,200	..	..	..	4,200	..		
		Kachakatti do.	1,694	..	..	..	1,694	..		
		Tiruparamkundram hills ..	960	..	..	..	960	..		
		Elephant rock	640	..	..	..	640	..		
		Ammanamalai	1,600	..	..	..	1,600	..		
		Muttupattimalai								
		Vandiyúr Karadu								
		Naledévampatti Karadu	1,920	..	..	..	1,920	..		
		Total..	143,079	223·56	34,847	10,240	167,686	262·00		
Tinnevelly.	Nángunéri ..	Block I (*a*)	25,999	..	..	..	25,999	..	....	Notified under section of the Forest Act in *Fort St. George Gazette*, dated 23rd Feb. 1886, and District Gazette, dated 15th Apr. 1886.
	Ambásamudram.	Do. II (*a*) and (*b*)	61,856	..	..	8,037	53,818	..	Excluded in settlement by Forest Settlement-officer, G.O., No. 70, dated 24th Jan. 1887.	
	Tenkási ..	Do. III (*a*), (*b*) and (*c*)	14,032	..	..	3,389	10,643	..		
	Sankaranainárkoil.	Do. IV (*a*)	30,713	..	..	..	30,713	..		
	Srívilliputur ..	Do. V (*a*)	40,006	..	..	..	40,006	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Tinnevelly —*cont.*	Ambásamudram.	Mullimalai	457	..	..	..	457	..	....	Constituted reserved lands by Board's Proceedings, Forest No. 103, dated 2nd March 1886, and notification in District Gazette, dated 15th April 1886. Since notified under section 4 of the Forest Act in *Fort St. George Gazette* of the 28th June 1887.
		Kaliyaniamman kovil parai	309	..	..	..	309	..	....	
		Koviladi parai	125	..	..	..	125	..	....	
		Salupparpadai	71	..	..	..	71	..	....	
		Kolandamámalai	1,540	..	..	..	1,540	..	....	
	Tenkási	Okaninran pádai	85	..	..	..	85	..	....	
		Kavalkuti peramba	375	..	..	..	375	..	....	
		Kottamalai	860	..	..	..	860	..	....	
		Nalankurchi	212	..	..	..	212	..	....	
	Sankaranainárkoil.	Chunnambu peramba	286	..	..	..	286	..	....	
		Seiyamalai and Vedamalai	294	..	..	..	294	..	....	
	Srívilliputur	Kotankulam	630	..	..	..	630	..	....	
		Sappaniperamba	376	..	..	..	376	..	....	
		Pulpattiperamba	51	..	..	..	51	..	....	
		Valaikulamperamba	1,120	..	..	..	1,120	..	....	
		Onipattimalai	530	..	..	..	530	..	....	
		Martandamparai	135	..	..	..	135	..	....	
	Tinnevelly	Talaiyútu	891	..	..	..	891	..	....	
		Sivilaperiperamba	263	..	..	..	263	..	....	
	Tenkarai	Kottamadaki	1,279	..	..	..	1,279	..	....	
		Kudiraimalai	13,418	..	..	..	13,418	..	....	
		Punnamparai	117	..	..	..	117	..	....	
		Kongrayakurchi	77	..	..	..	77	..	....	
		Kalyarkádu	158	..	..	..	158	..	....	
		Vellanad hills	4,667	..	..	..	4,667	..	....	
	Otapidáram	Melavittam	674	..	34	..	708	..	....	
		Virusampatti	294	..	..	..	294	..	....	
	Nángunéri	Teak tract	..	..	285	..	285	..	....	
		Chinnakadu defined in Mr. Baber's decision on the claims of inamdar	..	..	2,560	..	2,560	..		
	Otapidáram	Vaipar	813	..	..	..	813	..	....	Notified as reserved lands under rule 2 of rules under section 26, *vide* Board's Proceedings, Forest No. 103, dated 2nd March 1886, and notification in District Gazette of 15th April 1886.
		Total	202,715	316·74	2,879	11,426	194,168	303·39		
North Malabar	Wynaad	Palpattúr	861	..	..	..	861	..		
		Vengúr	2,013	..	..	..	2,013	..		
		Chedlet	572	..	..	..	572	..		
		Karpúr	1,221	..	..	..	1,221	..		
		Kalúr	3,757	..	..	..	3,757	..		
		Excluded portions of Trans-Beni.	4,300	..	..	..	4,300	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Malabar—*cont.*	Wynaad—*cont.*	Kudrakot	21,502	..	..	..	21,502	..		
		Padri	30,468	..	..	..	30,468	..		
		Cardamom forest	13,683	..	..	..	13,683	..		
		Kanot	25,600	..	..	..	25,600	..		
		Chapparam	112	..	..	..	112	..		
		Panniyatta	150	..	..	..	150	..		
		Adavankunnu	39	..	..	..	39	..		
		Total ..	104,278	162·93	..	..	104,278	162·93		
South Malabar.	Nilambúr ..	Nilambúr block	..	..	5,036	..	5,036	..	Notified under section 4 of the Act, Board's Procs., Forest No. 86, dated 21st February 1888.	Of this, 11,232 acres have been transferred from 59-B and the balance 697 acres, from plantation areas not previously included in form No. 59.
		Pokote	..	..	761	..	761	..		
		Panangod	..	..	859	..	859	..		
		Valluvasheri	..	..	914	..	914	..		
		Kanakut	..	..	669	..	669	..		
		Erambadam	..	..	581	..	581	..		
		Ambalakandi	..	..	1	..	1	..		
		Arimbrakutamala	..	..	322	..	322	..		
		Mangalasheriperamba	..	..	11	..	11	..		
		Putalata and Chitarikal peramba ..	..	..	8	..	8	..		
		Muriyat	..	..	1,765	..	1,765	..		
		Kariyen	..	..	1,002	..	1,002	..		
		The Silent valley	..	..	17,280	..	17,280	..	Constituted reserved lands under rules under section 20 of the Forest Act, *vide* Board's Proceedings, No. 28 of 21st January 1888, and District Gazette Notification, dated 1st March 1888. To take effect from 15th March 1888.	The area is approximate and the forest tract was transferred with the Pálghat range as per Conservator of Forest's suggestion contained in G.O., No. 128, Forest, of 20th November 1886, as well as the notification contained in the *Fort St. George Gazette*, dated 8th February 1887.
	Pálghat ..	Chatamkulamkarai peramba ..	30	..	..	..	30	..		
		Tamburatta peṭai *alias* Pilacheripalaiyam	100	..	..	..	100	..		
		Tiruvazhamkunnu *alias* Panakadam	1,000	..	..	..	1,000	..		
		Chenatnair forest	15,203	..	..	15,203	..	..	*Fort St. George Gazette*, dated 5th April 1887.	Transferred to 59-A.
		Total ..	16,333	25·52	29,209	15,203	30,339	47·40		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Canara.	Mangalore ..	No. 5, Ullal Casuarina and Honne plantation.	56	..	2	..	58	..	On a more correct survey at the time of settlement.	Draft notification under section 16 has already been submitted for these.
		No. 10, Tannirbhavi	50	..	20	..	70	..	By actual survey.	Do. do.
		No. 11, Todar reserve	960	..	..	320	640	..		Inquiry completed.
		No. 12, Hosabetta reserve	1,600	..	..	1,120	480	..	....	do. do.
		No. 13, Mujimalai reserve	3,200	..	..	..	(a) 3,200	..	By actual survey.	
		Tenkahola	1920	..	148	..	2,068	..	....	Draft notifications under section 16 have been already submitted for these.
		Chinkramali	2,560	..	..	..	(a) 2,560	..	By actual survey.	
		Manajekádu	1,280	..	..	860	420	..		
	Udipi	Durgamalai	1,920	..	..	147	1,773	..	G.O., Forest No. 97, dated 8th July 1887, communicated in Boards Proceedings, Forest No. 44, dated 4th August 1887.	The area stated in submitting notification under section 4 was a mere estimate. The present area was calculated after survey.
		Andar reserve	..	..	18,193	..	18,193	..		Transferred to 59-A.
		The Siradi Sisla reserve	19,200	..	..	19,200	..	..		Submission of draft notification under section 16 is awaiting the disposal of 7 appeals in High Court.
		Dharmastala Mundaji	9,600	..	..	..	(a) 9,600	..		Transferred to 59-A.
	Uppinangadi ..	Charmadikanapadi	12,800	..	..	..	(a) 12,800	..		
		Bhagimalé	6,400	..	..	6,400	..	..		
	Kasaragód ..	Parappa	7,680	..	..	..	(a) 7,680	..		
	Kondápur ..	....	..	..	144,000	..	144,000	..	....	Made reserved lands under rules under section 26 prior to 1887-88, but omitted to be excluded in past year's return.
	Udipi	....	..	..	77,386	..	77,386	..	....	
	Mangalore ..	....	..	..	24,480	..	24,480	..	....	
	Uppinangadi ..	....	..	..	288,000	..	288,000	..	....	Made reserved lands under rules under section 26 in 1887-88.
	Kasaragód ..	....	..	..	32,920	..	32,920	..	....	Made reserved lands under rules under section 26 prior to 1887-88.
		Total ..	69,226	108·17	585,149	28,047	626,328	978·64		
		Grand Total ..	2,339,143	3,654·91	1,336,455	377,945	3,297,653	5,152·58		

(a) These are mere estimates as the blocks have not been surveyed.

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
ABSTRACT.										
Chingleput	..	..	38,091	59·52	8,764	15,322	31,533	49·27		
North Arcot	..	..	399,610	624·39	27,090	250	426,450	666·33		
South do.	..	..	138,572	216·52	9,213	37,934	109,851	171·64		
Salem	..	..	457,659	715·09	83,654	253,222	288,091	450·14		
Trichinopoly	..	..	107,831	168·49	20,356	6,301	121,886	190·45		
Tanjore	..	..	4,355	6·80	7,934	..	12,289	19·20		
North Coimbatore	..	..	645,954	1,009·30	527,360	..	1,173,314	1,833·30		
South do.	..	..	11,440	17·87	..	..	11,440	17·87		
Madura	..	..	143,079	223·56	34,847	10,240	167,686	262·00		
Tinnevelly	..	..	202,715	316·74	2,879	11,426	194,168	303·39		
North Malabar	..	..	104,278	162·93	..	..	104,278	162·93		
South do.	..	..	16,333	25·52	29,209	15,203	30,339	47·40		
South Canara	..	..	69,226	108·17	585,149	28,047	626,328	978·64		
Total ..	..	..	2,339,143	3,654·91	1,336,455	377,945	3,297,653	5,152·58		

Annual Form No 59 E.

Forest Department, Madras, Southern Circle.

Area of other Forests, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Chingleput	Kavanur	..	..	568	..	568	..	These areas were selected for reservation during the year but not yet notified under section 4.	
		Siruvanjur	..	..	465	..	465	..		
		Orattur	..	..	312	..	312	..		
		Vadambakam	..	..	694	..	694	..		
		Vadakupattu	..	..	699	..	699	..		
		Nallur	..	..	937	..	937	..		
		Maganyam	..	..	942	..	942	..		
		Kulvay	..	..	139	..	139	..		
		Kolatur	..	..	1,899	..	1,899	..		
		Kagar	..	..	643	..	643	..		
		Taiyur	..	..	1,084	..	1,084	..		
		Mambakam	..	..	766	..	766	..		
		Sonalur	..	..	1,190	..	1,190	..		
		Total ..	..	..	10,338	..	10,338	16·15		
North Arcot ..	....	....	..	..	..	..	..	..		
South Arcot ..	No. I Tiruvannámalai ..	Tenmalai	16,960	..	..	..	16,960	..		
		Tandrampet	20	..	..	..	20	..		
		Kadambai	280	..	..	..	280	..		
		Kannamadi	25,600	..	..	..	25,600	..		
		Nattampallai	2,560	..	..	..	2,560	..		
		Ravandivadi	12,800	..	..	..	12,800	..		
		Porasapet	15,360	..	..	..	15,360	..		
		Sirupakam	11,520	..	..	..	11,520	..		
		Erayurmalai	5,120	..	..	..	5,120	..		
		Nukambadi Morkulam	32,000	..	..	..	32,000	..		
		Rasimalai	19,200	..	..	..	19,200	..		
		Veppur	25,600	..	..	..	25,600	..		
		Bimarapatti Attipadi	19,200	..	..	..	19,200	..		
		Kaludaikattimalai	7,040	..	..	..	7,040	..		
		Sannamalai	10,880	..	..	..	10,880	..		

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. I Tiruvannámalai—*cont.*	Tachampet including Atipakum.	29,080	..	..	..	29,080	..	....	
		Kolamanjanur	3,200	..	..	..	3,200	..	....	
		Pudupalaiyam	6,400	..	..	..	6,400	..	....	
		Tiruvannámalai timber yard ..	4	..	..	..	4	..	....	
		Javadi slopes from Bandirevu to Madagarai in Salem district.	25,600	..	..	..	25,600	..	....	
		Damaraikadu in North Arcot district.	7,880	..	..	..	7,880	..	....	
	No. II Tindivanam ..	Vailamur Timmippendrug ..	10,240	..	..	..	10,240	..	....	
		Kotenmalai near Padipallam block.	392	..	..	..	392	..	....	
		Vellimodu	2,560	..	..	..	2,560	..	....	
		Minamurmalai	3,840	..	..	..	3,840	..	....	
		Valeti	1,280	..	..	..	1,280	..	....	
		Pattuvoy	1,280	..	..	..	1,280	..	....	
		Kilsevur	1,280	..	..	..	1,280	..	....	
		Nadukuppam to Bramhadesam ..	3,840	..	..	..	3,840	..	....	
		Parikalpet	70	..	..	..	70	..	....	
		Odaiyanattam and Kadaiyam ..	6,400	..	..	..	6,400	..	....	
		Pulanjaimalai	450	..	..	450	..	..	....	Transferred to 59-C.
		Ariyalur forest	500	..	..	350	150	..	....	
	No. III Villupuram ..	Pallipudupet	180	..	..	..	180	..	....	
		Panjamadevi	50	..	..	..	50	..	....	
		Puntotam	50	..	..	..	50	..	....	
		Sattipattu	50	..	..	..	50	..	....	
		Periyapuram	50	..	..	..	50	..	....	
	No. IV Cuddalore ..	Selambanadampettai	640	..	..	..	640	..	....	
		Badrakottai	1,281	..	..	..	1,281	..	....	
		Velankuppam	2,560	..	..	..	2,560	..	....	
		Kanjiruppu	600	..	..	..	600	..	....	
		Vengadampettai, 15th milestone .	250	..	..	..	250	..	....	
	No. IV Chidambaram ..	Pinnalur Wálajápet tank block.	1,600	..	..	..	1,600	..	....	
		Virinjipuram and Kandachipuram.	2,560	..	..	..	2,560	..	....	
		Kuttadi	640	..	..	..	640	..	....	
	No. V Tirukoilúr ..	Timmachur to Gadilam river ..	4,920	..	..	..	4,920	..	....	
		Chikkadu	4,920	..	..	..	4,920	..	....	
		Paiyur	50	..	..	..	50	..	....	
		Kolatur	70	..	..	..	70	..	....	
		Mambakam	40	..	..	..	40	..	....	

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. V. Tirukoilúr—*cont.*	Sikkampet	50	..	..	..	50	..	....	
		Muttalur	50	..	..	..	50	..	....	
		Kodiyur	50	..	..	..	50	..	....	
	No. VI. Kallakurchi ..	Ponparappi forest	9,600	..	..	..	9,600	..	....	
		Kadambur	3,100	..	..	..	3,100	..	....	
		Lalapet forest including Chittal.	14,500	..	..	..	14,500	..	....	
		Tagarai Kachirajapalaiyam ..	15,000	..	..	..	15,000	..	....	
		Parigam	2,000	..	..	..	2,000	..	....	
		Kanai	3,000	..	..	..	3,000	..	....	
		Poigunnamalai	1,000	..	..	..	1,000	..	....	
		Palavalam	2,000	..	..	..	2,000	..	....	
		Rangappanur	1,000	..	..	..	1,000	..	....	
		Kammapuram	1,400	..	..	..	1,400	..	....	
		Kodanur south of 45th milestone.	1,000	..	..	..	1,000	..	....	
	No. VII. Vriddháchalam.	Wuyakondravi and Kottayam ..	2,000	..	..	..	2,000	..	....	
		Block near 25th milestone ..	150	..	..	..	150	..	....	
		Pudur	1,920	..	..	..	1,920	..	....	
		Kolatur	1,280	..	..	..	1,280	..	....	
		Periyanesalur	1,280	..	..	..	1,280	..	....	
		Total ..	389,327	608·32	..	800	388,527	607·08		
Salem ..	....	....	..	..	..	..	..	..		
Trichinopoly.	....	....	..	..	..	..	..	..		
Tanjore ..	Southern	Talaner	1,200	..	..	1,200	..	..	Notified under section 4 of the Act, *vide* G.O., dated 24th June 1887, No. 608.	Transferred to 59-C.
		Kariyapatnam	188	..	..	..	188	..	....	
		Manakadu	170	..	..	(*a*) 120 + (*b*) 50	..	..	Do.	(*a*) Transferred to 59-C. (*b*) Rectification of error.
		Valligadangu	40	..	..	..	40	..	....	
		Vanduvancheri	150	..	..	..	150	..	....	
		Mudupet	300	..	..	..	300	..	....	
		Kovilpattu	137	..	..	..	137	..	....	

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tanjore—*cont.*	Southern	Vanavanmahadevi	380	..	..	..	380	..		
		Vallupallam								
		Pushpavanam	500	..	..	..	500	..		
		Periyakudagai	366	..	..	..	366	..		
		Total ..	3,431	5·36	..	1,370	2,061	3·22		
North Coimbatore.	....	....	..	..	..	..	..	..		
South Coimbatore.	....	....	..	..	..	..	..	..		
Madura ..		Detached hills and karadus in the Cumbum valley.	787	..	..	..	787	..		
	No. I Periykulam ..	Government portion of the Agamalais.	9,280	..	..	..	9,280	..		
		Andipatti hills	12,800	..	..	..	12,800	..		
	No. II Kodaikánal ..	Upper Palni plateau	32,000	..	..	..	32,000	..		
	No. III Dindigul ..	Portion of the slopes of the Sirumalais.	640	..	..	..	640	..		
		Detached hills near Aiyalur ..	9,600	..	..	..	9,600	..		
		Detached hills near Kanavoipatti.	3,840	..	..	..	3,840	..		
		Nedumalais	3,840	..	..	..	3,840	..		
	No. IV Melúr	Some of the detached hills near Nattam.	2,560	..	..	2,560	..	..	....	Transferred to 59-C.
	No. V Madura	Perumalai	5,120	..	..	5,120	..	..	....	
		A portion of the Manjamalais ..	4,800	..	..	..	4,800	..		
		Total ..	85,267	133·23	..	7,680	77,587	121·23		
Tinnevelly ..	Tenkarai	Paramankurchi	1,133	..	..	..	1,133	..		
		Arasur	6,831	..	..	..	6,831	..		
		Kottam	2,860	..	..	..	2,860	..		
		Total ..	10,824	16·91	..	..	10,824	16·91		

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Malabar.	Wynaad	Manatana	214,400	..	..	..	214,400	..		
		Total ..	214,400	335·00	..	..	214,400	335·00		
South Malabar.	Palghat	Forest land near Dhoni	150	..	..	..	150	..	Purchased in public auction and handed over to the Forest Dept. presumably, *vide* Board's Procs., Forest Mis. No. 19, dated 10th Jan. 1888, as observed in monthly disposal list of Forest Procs. for Jan. 1888. The area is as per the sale notice 616 square miles, but the District Forest-officer's estimation is from 120 to 150 square miles.	
	Nilambúr	The new Amarapalaiyani forests consisting of twenty blocks.	..	..	96,000	..	96,000	..		
		Total ..	150	0·23	96,000	..	96,150	150·23		
South Canara.	....		..	..	..	..	..	..		
		Grand Total ..	703,399	1,099 05	106,338	9,850	799,887	1,249·82		

ABSTRACT.

Chingleput ..	....	....	..	..	10,338	..	10,338	16·15	....
North Arcot ..	....	....	..	..	..	..	..	..	....
South Arcot ..	....	....	389,327	608·32	..	800	388,527	607·08	....
Salem ..	....	....	..	..	..	..	..	..	....
Trichinopoly ..	....	....	..	..	..	..	..	..	....
Tanjore ..	....	....	3,431	5·36	..	1,370	2,061	3·22	....
North Coimbatore.	....	....	..	..	..	..	..	..	....
South Coimbatore.	....	....	..	..	..	..	..	..	....
Madura ..	....	....	85,267	133·23	..	7,680	77,587	121·23	....
Tinnevelly ..	....	....	10,824	16·91	..	..	10,824	16·91	....
North Malabar.	....	....	214,400	335·	..	..	214,400	335·	....
South Malabar.	....	....	150	·23	96,000	..	96,150	150·23	....
South Canara.	....	....	..	..	..	..	..	..	....
		Total ..	703,399	1,099·05	106,338	9,850	799,887	1,249·82	

ANNUAL FORM No. 60.

Forest Department, Madras, Southern Circle.

Area of Plantations, 1887-88.

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Regular Plantations.						
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	Chingleput ..	Maiyúr, Pilapúr and Mamandúr	263 3	21,118	..	544	263 3	21,662	
		Wálajábád	14·55	1,931	..	214	14·55	2,145	
		Hanumantaputéri	12				12		
		Melamaiyúr	24	4,254	..	106	24	4,360	
		Vembakam	8				8		
		Nazaretpet	71·54	1,715	..	48	71·54	1,763	
		Total ..	396·09	29,018	..	912	396·09	29,930	
North Arcot ..	Chandragiri ..	Gazerlamandiam	250	3,413	..	81	250	3,494	
	Gudiyátam ..	Tiruvallam	435	32,887	..	2,057	435	34,944	
		Virinjipuram	260	21,990	..	1,205	260	23,195	
		Ammerdi	160	5,984	..	778	160	6,762	
	Wálajápet ..	Vanivédu	30	2,613	..	442	30	3,055	
	Arcot	Kilminnel	150	11,638	..	1,108	150	12,746	
	Vellore ..	Ammerdi	25	4,411	..	101	25	4,512	
		Total ..	1,310	82,936	..	5,772	1,310	88,708	
South Arcot ..	No. I, Tiruvannámalai.	Chengam	8	1,260	..	7	8	1,267	
	No. II, Tindivanam.	Agaram	106	8,263	..	48	106	8,311	
		Akshikadu	107	2,600	..	568	107	3,168	
		Talangoda	160	9,982	5	356	165	10,338	
		Fort St. David	37	4,807	1	353	38	5,160	
		Shonankuppam	195	10,001	..	122	195	10,123	
	No. IV, Cuddalore.	Donitorai and other salt topes around ..	88	3,073	2·97	144	90·97	3,217	
		Nochikádu	364·46	10,176	..	384	364·46	10,560	
		Periyakuppam	424·52	7,342	20	1,135	444·52	8,477	
		Amount of land-rent paid for plantations within the Municipality of Cuddalore town.	..	840	..	211	..	1,051	
	No. IV, Chidambaram.	Killai plantation	74·50	2,675	..	293	74·50	2,968	
		Coleroon mouth plantation	49·14	1,739	..	116	49·14	1,855	
		Periyapet plantation	95·46	934	20	336	115·46	1,270	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
South Arcot ..	No. V, Tirukoilúr.	Malatar bed plantation	27	30,101	..	..	27	30,101	
		Velúr	..	2,563	..	..	..	2,563	
		Add pay of the manager and his gumasta in charge of Tirukoilúr plantation.	..	916	..	..	..	916	
		Total ..	1,736·08	97,272	48·97	4,703	1,785·05	1,01,345	
Salem ..	....	....	..	..	..	..	..	..	
Trichinopoly ..	Trichinopoly ..	Punganúr	425	586	..	55	425	641	Transferred from No. II Range.
	Kulitalai ..	Elamanúr	117·10	12,602	..	291	117·10	12,893	
		Pettuvaitalai	137	368	..	93	137	461	
		Kulitalai	77·18	10,570	..	365	77·18	10,935	
		Manatattai	44·86	4,576	..	326	44·86	4,902	
		Lálápet	213	6,526	* 55·20	590	268·20	7,116	* As per working plan.
		Ambásamudram	319	524	..	51	319	575	
		Mahadanapuram	191	332	..	36	191	368	
		Sittalavoi	160·32	7,839	..	325	160·32	8,164	
		Sekkanam	119	3,060	..	60	119	3,120	
		Kattalai	74·35	8,033	..	242	74·35	8,275	
		Pudúr	141	817	..	57	141	874	
		Maiyanúr	50	208	..	147	50	355	
	Udayárpálaiyam.	Kolamanikkam	242	6,338	..	232	242	6,570	
		Arámanaikurchi	91	2,509	..	15	91	2,524	
		Karaipakam	107	2,796	..	98	107	2,894	
		Tiruvenganúr	185	2,314	..	60	185	2,374	
		Varappakurchi	192	1,901	..	73	192	1,974	
		Sattambadi	105	2,323	..	38	105	2,361	
		Sripurandan	486	3,711	..	64	486	3,775	
		Valakurchi	130	535	..	79	130	614	
		Annagarampet	92	1,819	..	108	92	1,927	
		Total ..	3,698·81	80,287	55·20	3,405	3,754·01	83,692	
Tanjore ..	Northern ..	Tranquebar, No. I	52	..	..	..	52		
		Do. No. II	92	..	..	..	92		
		Vettangudi	453	..	..	983	453	11,451	
		Neidavasal	51	..	..	..	51		
		Kodiyampalaiyam	60	..	..	48	60		
	Southern	Kodambadi	26	..	— 26	..	..	..	Abandoned, *vide* G.O., dated 11th May 1885, No. 541.
		Total ..	734	10,420	— 26	1,031	708	11,451	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
North Coimbatore.	Kollegál	Byłúr	97	30,806	..	1,369	97	32,175	Sandalwood plantations.
South Coimbatore.	Tunakadavu ..	No. I Plantation	8·5	4,402	..	..	8·5	4,402	These are the plantations in No. I reserve on the Anaimalais.
		,, II do.	8				8		
		,, III do.	3				3		
		Total ..	19·5	4,402	..	..	19·5	4,402	
Madura ..	No. I, Periyakulam	Vannatiparai plantation	4	1,391	..	..	4	1,391	Particulars are given below:—
	No. II, Kodaikánal.	Kodaikánal Eucalyptus plantation	8	3,504	..	20	8	3,566	
		Kodaikánal Acacia plantation	5·50		..	42	5·50		
		Kodaikánal-Parappar plantation	11·50	920	..	106	11·50	1,026	
		Vilamkombai	4·14	976	..	..	4·14	976	
		Pumbarai	3	512	..	21	3	533	
		Kodaikánal scattered plantation	3	1,039	..	42	3	1,081	
		Gunden shola plantation	..	..	5	339	5	339	
		Total ..	39·14	8,342	5	570	44·14	8,912	
Tinnevelly ..	....	....	..	..	..	..	..	..	
North Malabar ..	....	Kanot teak plantation	41·50	3,097	..	292	41·50	3,389	
South Malabar ..	Nilambúr ..	Amarapalaiyam reserve	408·77	2,18,685	* 85·00	6,483	408·77	2,25,168	* Second block of planting teak, 1887-88, actual.
		Chatambarai do.	498·10				498·10		
		Nellikutta do.	120·23				120·23		
		Aravillikombai do.	134·86				134·86		
		Aruvakód do.	111·44				111·44		
		Edakód	692·52				692·52		
		Elanjiri	337·76				337·76		
		Ramalúr	21·33				21·33		
		Mulatmunna	71 56				71·56		
		Panangód reserve	505·09				590·09		
		Valuvasheri do.	584·00				584·00		
		Mangalasheri do.	10·74				10·74		
		Ambalakandi do.	1·01				1·01		
		Chittarikal and Puttalat	8·35				8·35		
		Arimbrakuta	21·75				21·75		
		Total ..	3,527·51	2,18,685	85·00	6,483	3,612·51	2,25,168	

Particulars are given below:—

	Rs.	A.	P.
Charges for digging 4,639 pits	66	4	4
Charges for opening nursery	11	0	0
Charges for purchasing mud pots and baskets	46	12	0
Charges for planting	44	9	2
Charges for keeping off plants from forest	25	0	0
Plantation fencing .	87	2	6
Gardener's wages ..	58	0	0
	338	12	0

Area of of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
South Canara	Mangalore	Ullal casuarina and Honne plantations	55·50	1,428	+ 1·61 (a)	170	57·11	1,598	(a) Result of a more correct survey. One acre was felled and restocked during the year.
		Tannirbavi casuarina plantations	22·0	1,929	+ 22 (b)	472	44·0	2,401	(b) Increase in the area planted previous to this year found on a more correct survey 12 acres. Area planted in 10 1887 88 — 22 " —
	Kasaragod	Parappar teak plantation	109·0	16,597	— 59 (c)	60	50	16,657	(c) Error found on remeasurement.
		Total	186·50	19,954	— 35·39	702	151·11	20,656	
		Grand Total of Regular Plantations	11,786·13	585,219	132·78	24,609	11,918·91	6,09,828	
					Cultural Operations.				
Direction		Cost of Persian date palms imported	..	1,141	..	..	..	1,141	
Chingleput			..	..	..	..	..	..	
North Arcot			..	..	..	..	..	..	
South Arcot	Cuddalore	Ramapuram	70				70		
		Forests in Tindivanam and Villupuram	593	32			593	32	
		Forests in Cuddalore, Viddhachalam and Chidambaram.	663	345			663	345	
		Add charges incurred for carriage and maintenance, &c., of exotic plants planted in forests, but debited to A-VIII *d*.		66		327		393	
		Total	1,326	443		327	1,326	770	
Salem			..	..	..	..	..	..	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887. Area.	On 1st April 1887. Cost.	Added during 1887-88. Area.	Added during 1887-88. Cost.	On 31st March 1888. Total area.	On 31st March 1888. Total cost.	Remarks.
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Trichinopoly	Trichinopoly	Kaduvoi bank							
		Melúr	M. 6	54			6	54	
		Peruvalai bank	,, 2	133			2	133	
		Coleroon left bank, trunk road to Alambadi	,, 22	4,870		653	22	5,523	
	Udayárpálaiyam	Naddiyur project	,, 4	2,267			4	2,267	
		Coleroon left bank, Sembiyagudi to Vaippúr	,, 21	7,547			21	7,547	
		Panneri main channel	,, 19	7,094			19	7,094	
		Do. branch channel	,, 16	2,199			16	2,199	
		Lower anicut line	,, 10	3,457			10	3,457	
		Vadavar padugai		3				3	
		Total	M. 100	27,624		653	M. 100	28,277	
Tanjore	Northern	Kattucheri	15	95		48	15	143	
		Kalliyappanullúr	18	90		48	18	138	
		Mudikondanullúr	25	88		48	25	136	
		Vettangudi	520	242		161	520	403	
	Southern	Nadúr *	18	4	9		27	4	* Included in Nadúr block No. I reserved land and is under notification under section 4 of the Forest Act.
		Ichankottai *	9	9			9	9	
		Kollangarai	20		1		21		
		Karungulam Mélpadi	5				5		
		Marangulam *	20				20		
		Avelikudi			10		10		
		Nadukavéri Natarajapuram	9				9		
		Nannillam	2				2		
		Odiyandévi	20				20		
		Edarigankottai Meliyúr	7				7		
		Thirteen topes in Pudukóta taluk	135				135		
		Védáranyam (date garden)	21	90		58	21	148	
		Total	844	618+286 = 904	20	363	864	981+286 = 1,267	
North Coimbatore.									
South Coimbatore.									
Madura									
Tinnevelly	Tenkarai sub-range.	Kudiraimalai reserve	768	1,122	310 †—18·07	439	1,059·93	1,561	† Result of actual survey.
		Kotamadakikádu	2·50	35			2·50	35	
		Total	770·50	1,157	291·93	439	1,062·43	1,596	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Total.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
North Malabar		Rubber experiments		784				784	
		Cost of cardamom cultivation in Periya range.	32	580	77	196	109	776	
		Total	32	1,364	77	196	109	1,560	
South Malabar									
South Canara		Experimental growth of giant bamboos		28				28	
		Grand Total of Cultural Operations	2,972·50 / M. 100	32,661	388·93	1,978	3,361·43 / M. 100	34,639	

ABSTRACT.

Regular Plantations.

Chingleput	396·09	29,018		912	396·09	29,930	
North Arcot	1,310	82,936		5,772	1,310	88,708	
South Arcot	1,736·08	97,272	48·97	4,073	1,785·05	1,01,345	
Trichinopoly	3,698·81	80,287	55·20	3,405	3,754·01	83,692	
Tanjore	734	10,420	— 26	1,031	708	11,451	
North Coimbatore	97	30,806		1,369	97	32,175	
South do.	19·5	4,402			19·5	4,402	
Madura	39·14	8,342	5	570	44·14	8,912	
North Malabar	41·50	3,097		292	41·50	3,389	
South do.	3,527·51	2,18,685	85·00	6,483	3,612·51	2,25,168	
South Canara	186·50	19,954	— 35·39	702	151·11	20,656	
Total	11,785·13	5,85,219	132·78	24,609	11,918·91	6,07,828	

Cultural Operations.

Direction		1,141				1,141	
South Arcot	1,326	443		327	1,326	770	
Trichinopoly	M. 100	27,624		653	M. 100	28,277	
Tanjore	844	904	20	363	864	1,267	
Tinnevelly	770·50	1,157	291·93	439	1,062·43	1,596	
North Malabar	32	1,364	77	196	109	1,560	
South Canara		28				28	
Total	2,972·50 / M. 100	32,661	388·93	1,978	3,361·43 / M. 100	34,639	

ANNUAL FORM No. 61.

Forest Department, Madras, Southern Circle.

Annual list of Topes.

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost During year.	Cost To end of year.	Remarks.
					Acs.	Rs.	Rs.	
Chingleput	Chingleput	7	..	Mango, margosa, casuarina, iluppai, cocoanut and Inga dulcis	63	120	7,023	
	Saidápet	1	..	Kodukaipulli and mango	30	121	705	
	Total ..	8	..	Total ..	93	241	7,728	
North Arcot	Chittur	13	..	Date, tamarind, mango, cocoanut and palmyra	..	258	535	
	Chandragiri	29	..	Do. do. do. do.	..	129	142	
	Palmanér	13	..	Mango, iluppai, tamarind, cocoanut and casuarina.	132	383	6,953	
	Gudiyátam	120	..	Palmyra do. do. do.	61	46	15,399	
	Vellore	42	..	Mango, palmyra and tamarind	504	228	1,017	
	Pólúr	12	..	Do. do. do.	..	90	191	
	Arcot	113	..	Mango, tamarind, iluppai and palmyra	..	58	115	
	Wálajáh	37	..	Do. do. do.	46	104	5,580	
	Wandiwash	262	..	Do. do. do.	..	6	6	
	Total ..	641	..	Total ..	743	1,302	29,940	
South Arcot	No. I. Tiruvannámalai	34	..	Tamarind, iluppai, nagai, vembu, mango and kattuvagai	118	..	..	
	,, II. Tindivanam	7	..	Do. do. do. do.	35	..	..	
	,, III. Villupuram	14	..	Tamarind, iluppai, kattuvagai, margosa, mango, sandal and casuarina	77	..	..	
	,, IV. Cuddalore	2	..	Tamarind, iluppai, karuvelam, mango and nagai	12	..	..	
	,, IV. Chidambaram	4	..	Karuvelam, portia, tamarind, palmyra, and iluppai.	17	..	..	
	,, V. Tirukoilúr	17	..	Tamarind, margosa, iluppai, mango and vagai	33	..	..	
	,, VI. Kallakurchi	9	..	Tamarind, iluppai, margosa, karuvelam and velvelam	66	..	..	
	,, VII. Vriddháchalam	7	..	Tamarind, palmyra, mango, banyan, odiyan and konnai	30	..	..	
	Total ..	94	..	Total ..	394	..	8,712	
Salem	Salem	64	..	Mango, tamarind, margosa, nagai, iluppai, cocoanut and vagai	634	28	58,456	
	Atúr	17	..	Cocoanut, tamarind, iluppai and margosa	188	43	9,357	

	Acs.
* Last year's area	187·10
Added this year	·60
Total ..	187·70

Annual list of Topes —*cont.*

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACS.	RS.	RS.	
Salem—*cont.* ..	Námakal	16	..	Cocoanut, tamarind, iluppai, margosa, vagai and mango	58	100	* 7,164	* Includes Rs. 60 omitted in previous year.
	Tiruchengód	14	..	Mango, cocoanut, tamarind, margosa and iluppai ..	107	96	4,694	
	Utankarai	35	..	Tamarind, mango, nim and palmyra	301 †— 49	111	31,525	† Over added in previous year.
	Tirupatúr	23	..	Mango, tamarind, iluppai, vagai and palmyra ..	222	54	8,708	
	Krishnagiri	21	..	Iluppai, mango, tamarind, margosa, palmyra, karuvelam and nagai	358	48	29,141	
	Dharmapuri	31	..	Tamarind, illuppai, mango and sandalwood ..	492	144	17,167	
	Hosúr	42	..	Casuarina, illuppai, punga, naga mango and sandalwood	750	200	28,899	
	Total ..	263	..	Total ..	3,061	824	1,95,011	
Trichinopoly ..	Trichinopoly	6 + 2‡	..	Mango, illuppai and sissu	32	..	1,311	‡ Transferred from Kulitalai range.
	Kulitalai	6 — 2§	..	Tamarind and sissu	21	..	168	§ Transferred to Trichinopoly range.
	Musiri	2	..	Mango	4	..	..	
	Perambalúr	1	..	Do.	9	..	292	
	Udayárpálaiyam	1	..	Do.	2	..	..	
	Total ..	16	..	Total ..	‖ 68	..	1,771	‖ An area of 7 acres omitted in the previous return is included in this.
Tanjore	Tanjore	16	..	Cocoanut and mango	153	..	..	
North Coimbatore.	Satyamangalam	3	..	Palmyra	21	..	2,328	
	Kollegál	4	..	Karuvelam and tamarind	303	..	576	
	Bhawáni	26	..	Mango, palmyra and karuvelam	372	..	1,799	
	Erode	52	..	Palmyra, tamarind, velvelam, margosa, cork, oogal and karuvelam	614	94	13,069	
	Dhárápuram	76	..	Karuvelam, velvelam, tamarind, palmyra, margosa, cocoanut and velam	12,483	11	25	
	Karúr	22	..	Palmyra, cocoanut and tamarind	247	..	10,882	
	Total ..	183	..	Total ..	14,040	105	28,679	
South Coimbatore..	Palladam	6	..	Palmyra, tamarind, karuvelam, velvelam, teak and sandalwood	101	..	5,197	The two topes at Coimbatore, area 12 acres cost, Rs. 679, were handed over to the Land Revenue Department on 1st April 1887.

Annual list of Topes—*cont.*

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost		Remarks.
						During year.	To end of year.	
					ACS.	RS.	RS	
Madura ..	No. I. Periyakulam ..	9	..	Tamarind, iluppai, vembu, karuvelam, vagai, mango, bamboo, naval, sandal and mahogany ..	20	27	5,624	
	,, II. Kodaikánal ..	3	..	Tamarind, iluppai, vagai, velam and mahogany ..	9	2	1,185	
	,, III. Dindigul	8	..	Tamarind, mango, iluppai, karuvelam, vagai, naval, palmyra and velvelam	48	..	3,740	
	,, IV. Melúr	3	..	Vagai, tamarind, margosa, cocoanut	24	201	1,050	
	Total ..	23	..	Total ..	101	* 230	11,599	* Rs. 1,050, being cost of temporary establishment included in last year's total, is now excluded, the amount being debitable to (A) VIII (*f*).
Tinnevelly ..	Tinnevelly	4	..	Mango, tamarind, gooseberry and palmyra ..	35	111	541	
	Otapidáram	2	..	Mango, bamboo, iluppai and casuarina	11	..	328	
	Sátúr	2	..	Bamboo, naval, vagai and tamarind	3	..	† 554	† Rs. 100 omitted in previous year's reurn is now included.
	Sankaranainárkoil	5	..	Mango, iluppai, bamboo and jack	14	..	656	
	Tenkási	8	..	Mango, marudu, vagai, casuarina and tamarind ..	15	..	503	
	Ambásamudram	3	..	Vagai, marudu, margosa, iluppai and tamarind ..	9	..	504	
	Nángunéri	4	..	Mango, iluppai, bamboo, banyan, margosa, vagai and tamarind	19	96	964	
	Total ..	28	..	Total ..	106	207	4,050	
North Malabar ..	Wynaad sub-division ..	1	Experimental garden, Manantoddy.	Eucalyptus, Ceara rubber, cinchona	2½	472	2,271	
				Mahogany, sappan, Ficus elastica, &c.	‡ 17½			‡ Due to extension of tope.
	Total ..	1	..	Total ..	20	472	2,271	
South Malabar ..	Pálghat	§ 2	..	Mango, jack trees and Pongamia glabra	3	..	9	§ Transferred from Malabar (Wynaad and Palghat).
South Canara ..	....	..	..	....	..	..	..	
	Grand Total ..	1,281	..	Grand Total ..	18,883	3,381	2,29,967	

ABSTRACT.

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost		Remarks.
						During year.	To end of year.	
					ACS.	RS.	RS.	
Chingleput ..	....	8	..	....	93	241	7,728	
North Arcot ..	....	641	..	....	743	1,302	29,940	
South Arcot ..	....	94	..	....	394	..	8,712	
Salem	....	263	..	....	3,061	824	1,95,011	
Trichinopoly ..	....	16	..	....	68	..	1,771	
Tanjore	....	16	..	....	153	..	..	
North Coimbatore.	....	183	..	....	14,040	105	28,679	
South do. ..	....	6	..	....	101	..	5,197	
Madura	....	23	..	....	101	230	11,599	
Tinnevelly ..	....	28	..	....	106	207	4,050	
North Malabar ..	....	1	..	....	20	472	2,271	
South do. ..	....	2	..	....	3	..	9	
South Canara ..	....	..	..	....	..	..	..	
Total ..		1,281	..	Total ..	18,883	3,381	2,94,567	

Annual Form No. 62.

Forest Department, Madras, Southern Circle.

Area of forest tracts protected from fire during 1887-88.

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Tiruvallúr Range.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.		
Chingleput ..	Kambakam hills	7,350	1,883 0 0	7,350	21	7,329	271 0 0	2,154 0 0	1883-84	
	Nágalápuram hills	..	..	8,345	..	8,345	12 0 0	12 0 0	1887-88	
	Total ..	7,350	1,883 0 0	15,695	21	15,674	283 0 0	2,166 0 0		
	Specially protected.									
	Pólúr Range.									
	Karnatic ghur	7,069	1,242 0 0	7,069	600	6,469	151 0 0	1,393 0 0	1881	
	Tellai	15,072	1,272 0 0	15,121	20	15,101	207 0 0	1,479 0 0	1881	
	Ambúr fuel	3,805	921 0 0	3,840	..	3,840	187 0 0	1,108 0 0	1879	
	Palamadi	6,320	391 0 0	6,400	..	6,400	64 0 0	455 0 0	1880	
	Chandragiri Range.									
	Napier	8,466	1,037 0 0	8,772	..	8,772	288 0 0	1,325 0 0	1880	
	Mámandúr	1,184	1,173 0 0	1,776	..	1,776	152 0 0	1,325 0 0	1874	
	Chamala	9,600	205 0 0	9,600	..	9,600	60 0 0	265 0 0	1880	
	Panapak	6,400	157 0 0	6,400	..	6,400	57 0 0	214 0 0	1880	
	Pudipatla bail	2,560	158 0 0	2,560	..	2,560	64 0 0	222 0 0	1880	
	Chittur Range.									
	Paradarami	14,922	171 0 0	15,242	60	15,182	59 0 0	230 0 0	1880	
North Arcot ..	Airala	6,400	179 0 0	6,400	640	5,760	15 0 0	194 0 0	1880	
	Chittur	360	155 0 0	360	..	360	24 0 0	179 0 0	1882	
	Santapet	2,277	41 0 0	2,276	..	2,276	..	41 0 0	1882	
	Bommasamudram	1,426	79 0 0	1,426	640	786	52 0 0	131 0 0	1884	
	Chilapalli	1,296	41 0 0	1,296	..	1,296	27 0 0	68 0 0	1884	
	Kinatipalli	1,417	29 0 0	1,417	3	1,414	10 0 0	39 0 0	1884	
	Palmanér Range.									
	Mortana	16,000	516 0 0	16,000	..	16,000	155 0 0	671 0 0	1884	
	Musalimadugu	9,600	132 0 0	9,600	..	9,600	72 0 0	204 0 0	1884	
	Peddur	9,600	423 0 0	9,600	..	9,600	118 0 0	541 0 0	1880	
	Basvireddipalli	10,240	120 0 0	10,240	..	10,240	72 0 0	192 0 0	1884	
	Naikeneri	6,400	382 0 0	6,400	308	6,092	122 0 0	504 0 0	1884	
	Gudiyátam Range.									
	Ambúr drug	5,760	15 0 0	5,760	..	5,760	52 0 0	67 0 0	1880	

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Arcot Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	Punganúr	3,342	999 0 0	3,743	113	3,630	371 0 0	1,370 0 0	1884	
	Javadi Hill Range.									
	Malayalam	..	..	12,800	..	12,800	35 0 0	35 0 0	1887	
	Wálajápet Range.									
	Ammanur	201	..	203	..	203	3 0 0	3 0 0	1880	
	Banavaram	1,051	47 0 0	1,051	..	1,051	6 0 0	53 0 0	1880	
	Total ..	150,768	9,885 0 0	165,352	2,384	162,968	2,423 0 0	12,308 0 0		
	General protection.									
	Javadi Hill Range.									
	Puttur	12,800	375 0 0	12,800	..	12,800	..	375 0 0	1879	
	Pattrakad	19,200	751 0 0	19,200	..	19,200	..	750 0 0	1881	
	Virappanur	64,000	..	64,000	..	64,000	..	..	1886	
	Pólúr Range.									
	Kapalúr	1,267	..	1,267	..	1,267	..	..	1884	
	Kilúr	3,537	..	3,537	..	3,537	..	..	1884	
North Arcot—*cont.*	Alliyamangalam	10,062	..	10,062	..	10,062	..	..	1884	
	Vellore Range.									
	Amerdi plantation	25	..	25	..	25	..	..	1884	
	Topes.									
	Ambúr	5	..	5	..	5	..	..	1884	
	Chittur Range.									
	Penamúr	6,400	..	6,400	..	6,400	..	..	1880	
	Chandragiri Range.									
	Gazerlamandiyam plantation	250	..	250	..	250	..	..	1884	
	Gudiyátam Range.									
	Vikramasi	161	17 0 0	161	..	161	..	17 0 0	1882	
	Tiruvallam plantation	435	..	435	..	435	..	..	1884	
	Virinjipuram plantation	260	..	260	..	260	..	..	1884	
	Amundi plantation	160	..	160	..	160	..	..	1884	
	Cheynur tope	130	..	130	..	130	..	..	1884	
	Tandrayagunta tope	2	..	2	..	2	..	..	1884	

Area of forest tracts protected from fire during 1887-88—*cont.*

District	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Palmanér Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS A. P.	RS. A. P.		
North Arcot—*cont.*	Palmanér tope	2	..	2	..	2	..	..	1884	
	Nagamangalam plantation	31	..	31	..	31	..	..	1884	
	Piduguvaripalle	20	..	20	..	20	..	..	1884	
	Vengatagirikóta	4	..	4	..	4	..	..	1884	
	Baireddipalle tope	4	..	4	..	4	..	..	1884	
	Arcot Range.									
	Kilminnel plantation	150	..	150	..	150	..	..	1884	
	Satúr	1,048	..	1,048	..	1,048	..	..	1884	
	Sennaleri	1,675	..	1,675	..	1,675	..	..	1884	
	Enadivadi	1,567	..	1,567	..	1,567	..	..	1884	
	Tandayappentangal	1,112	..	1,112	..	1,112	..	..	1884	
	Sholavaram	1,232	..	1,232	..	1,232	..	..	1884	
	Wandiwash Range.									
	Pannur	939	..	939	..	939	..	..	1880	
	Venkundram	1,288	..	1,288	..	1,288	..	..	1880	
	Badur	873	..	873	..	873	..	..	1880	
	Nambedu	720	..	720	..	720	..	..	1880	
	Kodiyalam	125	..	125	..	125	..	..	1880	
	Nedungal	3,645	..	3,645	..	3,645	..	..	1883	
	Vishamangalam	1,148	..	1,148	..	1,148	..	..	1883	
	Nedungunam	1,797	..	1,797	..	1,797	..	..	1883	
	Bramhakateri	635	..	635	..	635	..	..	1883	
	Wálajápet Range.									
	Gúdalúr	535	..	535	..	535	..	..	1880	
	Kolatúr	1,779	..	1,779	..	1,779	..	..	1884	
	Urayur or Anantapuram	540	..	540	..	540	..	..	1880	
	Ammur	5,320	..	6,020	2,500	3,520	..	..	1884	
	Minnel	1,378	..	1,378	..	1,378	..	..	1884	
	Vanavedu plantation	30	..	30	..	30	..	..	1884	
	Arkónam tope	37	..	37	..	37	..	..	1884	
	Arkónam Sub-Magistrate's compound..	5	..	5	..	5	..	..	1884	
	Head Assistant Collector's compound ..	4	..	4	..	4	..	..	1884	
	Tengal	250	..	..	..	..	..	..	1884	
	Total ..	146,567	1,143 0 0	147,038	2,500	144,538	..	1,143 0 0		
	Total of the District ..	297,355	11,028 0 0	312,390	4,884	307,506	2,423 0 0	13,451 0 0		

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Tiruvannámalai Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
South Arcot ..	Annamalai reserved forest	1,610	..	1,760	22	1,738	..	..	1878	
	Kavuttumalai	5,965	..	6,000	675	5,325	..	..	1878	
	Tenmalai	7,000	..	20,000	..	20,000	..	..	1877	
	Mudinai reserved forest	4,000	..	4,000	..	4,000	..	..	1883	
	Valasaimalai	6,950	..	7,000	..	7,000	..	..	1883-84	
	Damarakadu	7,700	..	8,000	..	8,000	..	..	1884	
	Perungolaturswamimalai reserved forest, including 2,000 acres in Kallakurchi taluk	9,000	..	9,000	300	8,700	..	..	1883-84	
	Tagarai. Lakshmipuram, Kalroyan slopes	14,300	..	15,000	..	15,000	..	..	1883-84	
	Parigam Kambattumalai	1,000	..	1,000	..	1,000	..	..	8885-86	
	Chinnasamudram	6,000	..	6,000	..	6,000	..	..	1878	
	Total of the District ..	63,515	3,190 0 0	77,760	997	76,763	1,233 0 0	4,423 0 0		
	SPECIALLY PROTECTED AREAS.									
	Salem Range.									
Salem Range ..	Vadugampatti block, No. I	1,976	1,393 0 0	1,976	..	1,976	227 0 0	1,620 0 0	1881	Fire traced. Renewed 15½ miles.
	Morur block, No. II	799	704 0 0	799	..	799	108 0 0	812 0 0	1881	Renewed 9 miles.
	Mallapuram block	587	724 0 0	587	..	587	101 0 0	825 0 0	1881	Do. 7½ ,,
	Ammaneri do.	252	224 0 0	252	..	252	71 0 0	295 0 0	1882	
	Pillapallikombai do.	981	427 0 0	931	..	981	95 0 0	522 0 0	1882	Do. 6 ,,
	Kariyappakombai do.	531	300 0 0	531	..	531	64 0 0	364 0 0	1882	Do. 4 ,,
	Kanjiri do.	1,929	356 0 0	1,929	..	1,929	150 0 0	506 0 0	1883	Do. 9½ ,,
	Pannikaradu do.	2,645	1,083 0 0	2,645	..	2,645	161 0 0	1,244 0 0	1883	Do. 10½ ,,
	Uttankarai Range.									
	Karuvattuparai block	837	646 0 0	837	..	837	114 0 0	760 0 0	1884	Do. 7½ ,,
	Uttankarai do.	469	373 0 0	469	..	469	121 0 0	494 0 0	1881	Fire traced 1¼ miles. Renewed 6 ,,
	Singarapet	2,524	1,352 0 0	2,624	..	2,624	194 0 0	1,546 0 0	1881	Do. 12 ,,
	Hosúr	1,176	661 0 0	1,176	..	1,176	172 0 0	833 0 0	1882	Do. 8¾ ,,
	Tirupatúr Range.									
	Kótur	1,213	128 0 0	1,213	..	1,213	51 0 0	179 0 0	1885	Do. 5½ ,,
	Krishnagiri Range.									
	Burgur block	147	258 0 0	220	..	220	50 0 0	308 0 0	1883	Do. 4 ,,
	Pudur do.	1,069	635 0 0	1,069	..	1,069	133 0 0	768 0 0	1883	Do. 6 ,,
	Togarapalle	499	97 0 0	499	..	499	45 0 0	142 0 0	1884	Do. 4½ ,,

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Hosúr Range.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.		
Salem—*cont.* ..	Melgiri block, No. XVI..	5,431	240 0 0	5,461	..	5,461	204 0 0	444 0 0	1885	Renewed 13½ miles.
	Kanavoi Kottapalle block, No. XVII..	742	86 0 0	742	..	742	65 0 0	151 0 0	1885	Do. 4 ,,
	Gulhatti block, No. XVIII	3,248	171 0 0	3,248	..	3,248	147 0 0	318 0 0	1885	Do. 11 ,,
	Munchi block, No. XIX	3,305	220 0 0	3,305	..	3,305	125 0 0	345 0 0	1885	Do. 10 ,,
	Kanavanagasamudram block, No. XX.	316	88 0 0	416	..	416	73 0 0	161 0 0	1885	Do. 4 ,,
	Total of the District ..	30,676	10,166 0 0	30,979	..	30,979	2,471 0 0	12,637 0 0		
	Musiri.									
Trichinopoly ..	Sengattupatti	2,940	44 0 0	3,000	..	3,000	82 0 0	126 0 0	1885-86	
	Manmalai	..	..	3,000	..	3,000	111 0 0	111 0 0	1887-88	
	Kanapadi	..	..	12,000	..	12,000	49 0 0	49 0 0	1887-88	
	Kampankadu	..	..	2,000	..	2,000	34 0 0	34 0 0	1887-88	
	Melúr	3,000	49 0 0	3,000	..	3,000	119 0 0	168 0 0	1885-86	
	V. Kanapadi	..	..	10,000	..	10,000	76 0 0	76 0 0	1887-88	
	Perambalúr.									
	Manalodai	4,000	40 0 0	4,000	..	4,000	..	40 0 0	1885-86	
	Salamatti	7,000	840 0 0	7,000	50	6,950	205 0 0	1,045 0 0	1885-86	
	Total of District ..	16,940	973 0 0	44,000	50	43,950	676 0 0	1,649 0 0		
Tanjore	.....	*Nil.*								
	Kollegál.									
North Coimbatore	I. Jadatallahulla	361	187 0 0	361	..	361	73 0 0	260 0 0	1884-85	
	II. Udayárpálaiyam	297	127 0 0	297	..	297	96 0 0	223 0 0	1884-85	
	III. Bailúr	1,186	342 0 0	1,186	..	1,186	109 0 0	451 0 0	1879-80	
	Satiyamangalam.									
	IV. Gairmalai	520	43 0 0	520	..	520	..	43 0 0	1885-86	
	Total of the District ..	2,364	699 0 0	2,364	..	2,364	278 0 0	977 0 0		

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.				
	I. Tunakadavu Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.			
South Coimbatore..	Anaimalai	2,280	1,237 0 0	3,408	..	3,408	676 0 0	1,913 0 0		1882-83	
	III. Punachi Range.										
	Punachi	3,140	819 0 0	3,140	..	3,140	445 0 0	1,264 0 0		1882-83	
	IV. Udamalpet Range.										
	Udamalpet Palar..	485	230 0 0	485	..	485	50 0 0	280 0 0		1883-84	
	VII. Bolampatti Range.										
	Bolampatti	6,400	695 0 0	6,400	..	6,400	271 0 0	966 0 0		1884-85	
	VIII. Sholakarai Range.										
	Sholakarai	1,640	1,050 0 0	3,000	..	3,000	349 0 0	1,399 0 0		1883-84	
	Total of the District ..	13,945	4,031 0 0	16,433	..	16,433	1,791 0 0	5,822 0 0			
	Special protection.										
	Reserved Forests.										
	No I. Periyakulam Range.										
	Vannatiparai	26,836	792 0 0	27,481	8	27,473	44 0 0	836 0 0		1884-85	
	Suranganar	3,606	12 0 0	3,616	..	3,616	460 0 0	744 0 0		1885-86	
	Melagudalur	1,280	16 0 0	1,280	..	1,280				1885-86	
	Pandaratorai	300	100 0 0	300	..	300				1886-87	
	Machakal	1,840	156 0 0	2,560	..	2,560				1886-87	
	Pambar	1,752	2,244 0 0	4,755	300	4,455	681 0 0	2,925 0 0		1883-84	
	Sengalvarai Ar	5,209	158 0 0	5,209	200	5,009	248 0 0	406 0 0		1885-86	
	No. II. Kodaikkanal Range.										
Madura	Pumbarai Vilapati valley	13,267	743 0 0	13,587	25	13,562	378 0 0	1,121 0 0		1885-86	
	Kudirai Ar and Kukkal	19,064	81 0 0	19,704	..	19,704	305 0 0	386 0 0		1886-87	
	No. III. Dindigul Range.										
	Sirumalai	25,509	907 0 0	25,530	21	25,509	408 0 0	1,315 0 0		1885-86	
	Mudumalai	6,086	294 0 0	6,086	..	6,086	129 0 0	423 0 0		1884-85	
	No. V. Madura Range.										
	Alagarmalai	12,786	5,560 0 0	13,036	..	13,036	757 0 0	6,317 0 0		1882-83	

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	RESERVED LANDS.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	No. I. Periyakulam Range.									
	Mudugamalai Fuel and Fodder reserve .	3,217	540 0 0	3,227	..	3,227	266 0 0	806 0 0	1884-85	
	No. II. Kodaikánal Range.									
	Perumalmalai	7,500	1,161 0 0	7,700	..	7,700	467 0 0	1,628 0 0	1883-84	
	Arankanal	2,410	446 0 0	2,560	150	2,410	103 0 0	549 0 0	1883-84	
	Kallar	9,400	319 0 0	9,600	..	9,600	197 0 0	516 0 0	1885-86	
	No. III. Dindigul Range.									
	Panjantangi	..	..	3,200	..	3,200	42 0 0	42 0 0	1887-88	
	No. IV. Melúr Range.									
	Karandamalais	..	..	22,400	..	22,400	33 0 0	33 0 0	1887-88	
	No. V. Madura Range.									
	Waggatumalai	4,200	434 0 0	4,200	..	4,200	63 0 0	497 0 0	1884-85	
Madura—*cont.* ..	Kachakatti Fuel and Fodder reserve ..	1,694	30 0 0	1,694	..	1,694	..	30 0 0	1884-85	
	Total ..	145,956	13,993 0 0	177,725	704	177,021	4,581 0 0	18,574 0 0		
	GENERAL PROTECTION.									
	No. I. Periyakulam Range.									
	Amburuvi	3,840	17 0 0	3,840	..	3,840	19 0 0	36 0 0	1886-87	
	No. II. Kodaikánal Range.									
	Kodaikánal scattered plantation ..	3	12 0 0	3	..	3	..	12 0 0	1883-84	
	Do. Acacia	5	7 0 0	5	..	5	..	7 0 0	1883-84	
	Do. Pumbarai	6	3 0 0	6	..	6	..	3 0 0	1883-84	
	Parappa	42	22 0 0	42	..	42	..	22 0 0	1884-85	
	Gunden shola	54	14 0 0	54	..	54	..	14 0 0	1886-87	
	Total ..	3,950	75 0 0	3,950	..	3,950	19 0 0	94 0 0		
	Total of the District ..	149,906	14,068 0 0	181,675	704	180,971	4,600 0 0	18,668 0 0		

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.				
	Southern Range.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.			
Tinnevelly ..	Block between Surveyar and Kariyar river, Pápanásam hills.	10,477	2,183 0 0	10,477	1,400	9,077	481 0 0	2,664 0 0		1884-85	
	Block between Surveyar, Kurampandi Teri, and Mutri Mottai.	1,180	270 0 0	1,200	300	900	425 0 0	695 0 0		1885-86	
	Alwarkurchi block	7,690	387 0 0	7,690	..	7,690	434 0 0	821 0 0		1886-87	
	Surveyar-Kariyar extension to the foot of the hills.	..	..	1,920	..	1,920	327 0 0	327 0 0		1887-88	
	Block of forests in Kalakad	8,320	911 0 0	8,320	..	8,320	505 0 0	1,416 0 0		1885-86	
	Do. do.	11,310	496 0 0	12,160	100	12,060	448 0 0	944 0 0		1886-87	
	Central Range.										
	Kuttálam block	..	..	5,120	..	5,120	262 0 0	262 0 0		1887-88	
	Kodiyanallúr block	..	..	2,560	..	2,560	157 0 0	157 0 0		1887-88	
	Boundary line between Chokampatti and Government forests.	3 miles.	145 0 0	..	..	..	..	145 0 0		1885-86	
	Boundary line between Viranankulam and Government forests.	10 ,,	310 0 0	..	..	..	..	310 0 0		1885-86	
	Northern Range.										
	Boundary line between Tirumalanaickan Pudukudi and Government forests.	3 ,,	30 0 0	..	..	..	..	30 0 0		1885-86	
	Total of the District ..	38,977 16 miles.	4,732 0 0	49,447	1,800	47,647	3,039 0 0	7,771 0 0			
	Special protection.										
North Malabar ..	Begúr	15,362	2,147 0 0	15,366	1,403	13,963	962 0 0	3,109 0 0		1882-83	
	General protection.										
	Kurchiyat	..	..	18,054	300	17,754	174 0 0	174 0 0		1887-88	
	Total ..	15,362	2,147 0 0	33,420	1,703	31,717	1,136 0 0	3,283 0 0			

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.				
	SPECIAL PROTECTION.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.			
	Nilambúr.										
South Malabar ..	Karimpoya reserve	3,955	308 0 0	3,955	..	3,955	185 0 0	493 0 0		1884-85	
	Amarampalaiyam reserve	468	211 0 0	468	..	468	75 0 0	286 0 0		1860-61	
	Chatambarai do.	700	123 0 0	700	..	700	82 0 0	205 0 0		1872-73	
	Nellikutta do.	1,824	412 0 0	1,824	..	1,824	115 0 0	527 0 0		1883-84	
	Teak plantation do.	2,500	1,299 0 0	2,500	..	2,500	462 0 0	1,761 0 0		1842-43	
	Pálghat.										
	Wálayár Reserve	3,017	3,989 0 0	3,017	..	3,017	455 0 0	4,444 0 0		1873-74	
	Chenat Nair do.	11,952	425 0 0	15,203	..	15,203	420 0 0	845 0 0		1884-85	
	Total of the District ..	24,416	6,767 0 0	27,667	..	27,667	1,794 0 0	8,561 0 0			
	SPECIAL PROTECTION.										
	Condapur Range.										
South Canara ..	Sabladi	208	45 0 0	208	..	208	41 0 0	86 0 0		1884-85	
	Sarpanamanekadu and Goligundi guddi reserved lands.	30	16 0 0	50	..	50	30 0 0	46 0 0		1886-87 and 1887-88	
	Udipi Range.										
	Pillarkan	318	33 0 0	320	..	320	48 0 0	81 0 0		1883-84	
	Chinkramale	2,527	234 0 0	2,560	2	2,558	308 0 0	542 0 0		1885-86 and 1886-87.	
	Manajikadu	1,230	98 0 0	420	..	420	123 0 0	221 0 0		1886-87	
	Tenkahola	1,920	47 0 0	2,068	..	2,068	277 0 0	324 0 0		1886-87	
	Uppinangadi Range.										
	Darmastalamandaji reserve	..	..	2,460	..	2,460	133 0 0	133 0 0		1887-88	
	Mangalore Range.										
	Chembugudde	75	14 0 0	75	..	75	5 0 0	19 0 0		1884-85	
	Kuttiyar	25	9 0 0	25	..	25	3 0 0	12 0 0		1884-85	
	Poitagi Kayarpalle	96	15 0 0	96	..	96	7 0 0	22 0 0		1885-86	

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Kásaragód Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
South Canara—*cont.*	Parappa	115	120 0 0	50	..	50	13 0 0	133 0 0	1882-83	
	Total of the District ..	6,544	631 0 0	8,332	2	8,330	988 0 0	1,619 0 0		
	Grand Total ..	667,350	60,315 0 0	800,162	10,161	790,001	20,712 0 0	81,027 0 0		
				ABSTRACT.						
Chingleput	....	7,350	1,883 0 0	15,695	21	15,674	283 0 0	2,166 0 0		
North Arcot	....	297,355	11,028 0 0	312,390	4,884	307,506	2,423 0 0	13,451 0 0		
South Arcot	....	63,515	3,190 0 0	77,760	997	76,763	1,233 0 0	4,423 0 0		
Salem	....	30,676	10,166 0 0	30,979	..	30,979	2,471 0 0	12,637 0 0		
Trichinopoly ..	....	16,940	973 0 0	44,000	50	43,950	676 0 0	1,649 0 0		
Tanjore	....	..	..	..	..	..	..	..		
North Coimbatore ..	....	2,364	699 0 0	2,364	..	2,364	278 0 0	977 0 0		
South Coimbatore ..	....	13,945	4,031 0 0	16,433	..	16,433	1,791 0 0	5,822 0 0		
Madura	....	149,906	14,068 0 0	181,675	704	180,971	4,600 0 0	18,668 0 0		
Tinnevelly	....	38,977	4,732 0 0	49,447	1,800	47,647	3,039 0 0	7,771 0 0		
North Malabar ..	....	15,362	2,147 0 0	33,420	1,703	31,717	1,136 0 0	3,283 0 0		
South Malabar ..	....	24,416	6,767 0 0	27,667	..	27,667	1,794 0 0	8,561 0 0		
South Canara ..	....	6,544	631 0 0	8,332	2	8,330	988 0 0	1,619 0 0		
	Total ..	667,350	60,315 0 0	800,162	10,161	790,001	20,712 0 0	81,027 0 0		
							Charged in previous years	43,504 0 0		
							Do. do. 1886-87	16,811 0 0		
							Do. do. 1887-88	20,712 0 0		
							Total ..	81,027 0 0		

ANNUAL FORM No. 63.

Forest Department, Madras, Southern Circle.

Prosecution for Breaches of Forest Rules during 1887-88.

District.	Cases pending from 1886-87.	New cases of the year.					Total Cases.	Disposed of during the year.										Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Compounded.		Withdrawn.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons	
Chingleput	..	..	14	1	5	20	20	16	64	3	8	..	..	..	..	19	72	1
North Arcot	5	1	58	40	57	156	161	69	192	24	108	64	125	..	..	157	425	4
South Arcot	20	..	60	62	38	160	180	44	123	15	101	85	169	..	..	144	393	36
Salém	55	6	267	68	15	356	411	25	107	23	180	308	1,063	23	156	379	1,506	32
Trichinopoly	8	1	245	85	13	344	352	229	369	67	197	22	24	..	..	318	590	34
Tanjore	25	..	165	..	5	170	195	149	200	7	25	19	54	..	..	175	279	20
North Coimbatore	..	..	25	31	1	57	57	45	103	5	25	..	..	..	..	50	128	7
South Coimbatore	6	..	14	22	3	39	45	19	72	3	6	12	23	..	..	34	101	11
Madura .. Under the Forest Act.	9	9	42	..	3	59	69	29	81	27	71	..	..	..	..	62	180	7
Madura .. Under the Penal Code	1	..	..	..	5			1	2	5	26	..	..	..	..			
Tinnevelly. Under the Forest Act	..	13	25	7	5	80	84	26	74	21	89	3	7	..	..	78	232	6
Tinnevelly. Under the Penal Code	4	..	2	..	28			25	48	3	14	..	..	..	..			
North Malabar	4	..	14	12	3	29	33	3	3	3	5	24	49	2	3	32	60	1
South Malabar	1	..	16	..	4	20	21	18	70	1	17	1	3	..	..	20	90	1
South Canara	18	..	118	2	34	154	172	93	138	23	53	43	58	..	..	159	249	13
Total ..	156	30	1,065	330	219	1,644	1,800	791	1,646	230	925	581	1,575	25	159	1,627	4,305	173

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of Revenue of the different Districts, 1887-88.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
RECEIPTS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government agency—															
(*a*) Timber	..	..	827	3,234	984	59	..	5	21,324	2,807	5,943	21,968	40,792	12,685	1,10,528
(*b*) Firewood and charcoal	..	858	10,336	11,109	90	15,038	333	..	..	1,968	751	..	343	842	41,668
(*c*) Bamboos	..	..	47	12	48	7	..	..	..	..	119	..	572	..	805
(*d*) Sandalwood ..	..	..	..	102	588	..	..	..	..	..	..	..	..	..	690
(*e*) Grass and other minor produce ..	..	..	..	937	..	..	..	..	7,564	..	..	66	34	27,838	36,439
II. Timber and other produce removed from the forests by consumers or purchasers—															
(*a*) Timber	..	6,663	9,925	7,919	17,166	14,215	485	5,230	4,883	19,100	6,191	805	3,550	2,751	98,883
(*b*) Firewood and charcoal	..	6,225	42,704	14,664	23,233	6,448	5,466	6,034	11,425	9,955	23,868	..	2,732	5,864	1,58,618
(*c*) Bamboos	..	265	19,434	2,472	29,069	4,253	79	11,264	4,967	2,600	560	247	464	580	76,254
(*d*) Grazing and fodder grass	..	1,244	30	2,226	..	5,140	593	29,049	5,584	1,524	609	..	27	12	46,038
(*e*) Other minor produce.	..	4,497	21,106	45,826	52,831	4,885	2,188	31,820	14,167	19,939	17,617	4,441	359	4,111	2,23,787
III. Confiscated drift and waifwood	..	28	238	360	425	187	10	78	412	448	281	18	80	489	3,054
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—															
(*a*) Fines and forfeitures	..	100	4	75	15	3	..	..	..	10	366	..	..	1,000	1,573
(*b*) Refunds	141	217	44	1,206	672	..	24	15	209	120	148	162	105	339	3,402
(*c*) Other sources ..	..	56	1,209	1,070	1,288	152	149	46	1,749	138	441	453	1,024	683	8,458
Total, Receipts ..	141	20,153	1,05,904	91,212	1,26,409	50,387	9,327	83,541	72,284	58,609	56,794	28,160	50,082	57,194	8,10,197

MADRAS,
12th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of Expenditure of the different districts, 1887-88.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
A.—*Conservancy and Works.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government agency—															
(*a*) Timber	..	..	2,804	2,048	1,023	1	..	..	14,331	1,798	3,770	1,090	7,759	10,619	45,243
(*b*) Firewood and charcoal ..	..	783	1,680	4,567	..	6,503	66	..	..	1,727	894	..	..	539	16,759
(*c*) Bamboos	..	..	2	1	20	..	..	..	..	..	193	..	..	..	216
(*d*) Sandalwood	..	..	1,138	..	53	..	..	2	..	..	..	..	..	..	1,193
(*e*) Grass and other minor produce	..	..	..	639	..	112	..	2	6,401	..	..	16	..	21,126	28,296
II. Timber and other produce removed from the forests by consumers or purchasers	610	1,056	5,659	2,401	9,834	3,375	302	6,138	3,143	4,317	4,095	16	26	3,511	44,483
III. Confiscated, drift and waifwood ..	..	..	7	48	11	..	..	8	93	17	12	..	..	4	200
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government ..	..	..	..	..	..	..	..	..	1,255	..	..	..	688	..	1,943
VI. Live-stock, stores, tools and plant—															
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	120	..	..	4,002	..	4,122
(*b*) Feed and keep of cattle ..	..	..	..	18	..	822	..	..	..	507	..	2,270	2,966	..	6,583
(*c*) Stores, tools and plant ..	1,328	278	118	363	631	42	16	964	158	281	269	253	795	182	5,678
VII. Communications and buildings—															
(*a*) Roads and bridges ..	..	560	1,317	820	75	402	..	434	1,530	1,489	5,344	503	1,550	..	14,024
(*b*) Buildings	..	272	804	576	903	218	43	3,104	936	437	1,696	2,009	6,117	192	17,307
(*c*) Other works	..	..	..	140	..	..	..	6	468	..	14	326	203	..	1,157
VIII. Demarcation, improvement and extension of forests—															
(*a*) Demarcation	..	1,382	2,062	659	3,969	399	118	168	61	582	1,222	425	250	316	11,613
(*b*) Compensation for land and rights	..	105	94	522	2,121	18	..	..	..	150	..	..	42,713	..	45,723
(*c*) Surveys and working plans.	665	..	..	4	835	500	39	20	1,277	1,028	402	33	..	1,061	5,864
(*d*) Plantations	..	1,324	7,075	4,400	823	4,058	1,394	1,475	..	800	646	959	6,483	702	30,139
(*e*) Protection from fire ..	..	283	2,423	1,233	2,471	676	..	279	1,792	4,608	3,015	1,150	1,794	988	20,712
(*f*) Other works	..	1,525	5,621	5,171	3,050	1,166	1,475	1,050	641	1,337	4,409	141	420	286	26,291
IX. Miscellaneous—															
(*a*) Refunds	14	464	153	75	196	99	15	25	58	4	233	..	..	307	1,643
(*b*) Law charges	..	5	..	1	1,500	..	..	..	99	..	5	694	16	33	2,353
(*c*) Other charges	118	16	29	6	77	..	..	12	3,240	140	3	3	224	27	3,895
Total, A.—Conservancy and Works ..	2,735	8,053	30,986	23,692	27,592	18,391	3,468	13,687	35,483	19,342	26,222	9,888	76,006	39,892	3,35,437

Summary of Expenditure of the different districts, 1887-88—*cont.*

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
B.—Establishments.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward—Total A.—Conservancy and Works ..	20,735	8,053	30,986	23,692	27,592	18,391	3,468	13,687	35,483	19,342	26,222	9,888	76,006	39,892	3,35,437
I. Salaries—															
(*a*) Conservators ..	20,401	..	..	..	..	..	..	..	..	..	..	..	..	..	20,401
(*b*) Superior officers ..	18,137	3,000	6,361	9,242	8,122	7,561	1,200	8,809	7,328	4,797	6,788	6,043	7,660	5,161	1,00,209
(*c*) Subordinate forest and depôt establishments	5,015	2,840	10,491	9,252	13,411	5,380	1,260	4,911	7,897	6,907	6,088	6,738	3,899	4,875	88,964
(*d*) Office establishments	17,420	1,113	2,524	2,350	3,063	1,732	468	2,364	2,684	1,981	1,953	2,423	1,591	1,914	43,580
(*e*) Deputation and special allowances.	..	..	..	..	..	..	..	..	54	..	..	..	..	..	54
II. Travelling allowances—															
(*a*) Conservators ..	3,388	..	..	..	..	..	..	..	..	..	..	..	..	..	3,388
(*b*) Superior officers ..	4,090	1,440	1,297	1,800	1,321	1,829	..	1,702	1,764	1,750	1,697	916	1,616	1,440	22,662
(*c*) Subordinate forest and depôt establishments ..	1,878	762	3,360	2,241	4,153	1,848	296	1,354	2,389	1,919	1,940	2,208	1,053	1,551	26,952
(*d*) Office establishments	3,317	173	273	285	323	101	49	433	108	387	274	168	90	252	6,233
III. Contingencies—															
(*a*) Stationery	57	..	..	..	2	..	..	..	4	..	..	..	..	..	63
(*b*) Carriage of tents and records	751	36	96	77	250	29	..	134	48	156	121	96	16	242	2,052
(*c*) Rents, rates and taxes	37	..	6	396	58	240	..	294	302	6	4	75	..	..	1,418
(*d*) Pay of police guards.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Official postage ..	1,045	174	336	566	840	307	103	316	253	369	445	130	123	442	5,449
(*f*) Sundries	1,486	412	816	336	1,278	219	87	541	650	613	464	295	44	315	7,556
Total, B.—Establishments ..	77,022	9,950	25,560	26,545	32,821	19,246	3,463	20,858	23,481	18,885	19,774	19,092	16,092	16,192	3,28,981
Grand Total of Expenditure ..	79,757	18,003	56,546	50,237	60,413	37,637	6,931	34,545	58,964	38,227	45,996	28,980	92,098	56,084	6,64,418

MADRAS,
13th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 65.

Forest Department, Madras, Southern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1887-88.

District.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Conservator, Southern Circle	..	3,820 5 9	3,820 5 9	357 12 1	3,643 1 5	4,000 13 6	180 7 9	..	
Three-fifths of Examiner's office	..	698 9 8	698 9 8	0 9 11	734 3 1	734 13 0	36 3 4	..	
Forest Settlement-officer, Chingleput and Tinnevelly.	..	282 6 7	282 6 7	40 3 0	262 3 7	302 6 7	20 0 0	..	
Forest Settlement-officer, Salem, &c.	..	....	....	....	....	....	....	..	
Forest School Dehra, Dun	..	4,445 1 7	4,445 1 7	178 5 4	4,303 12 3	4,482 1 7	37 0 0	..	
Chingleput	..	8,024 11 7	8,024 11 7	1,105 10 5	7,127 8 3	8,233 2 8	208 7 1	..	
North Arcot	..	41,645 15 7	41,645 15 7	216 11 1	41,581 14 8	41,798 9 9	152 10 2	..	
South do.	..	35,086 4 11	35,086 4 11	....	36,100 4 2	36,100 4 2	1,013 15 3	..	
Salem	..	37,217 8 11	3,7217 8 11	1,336 13 7	36,616 2 11	37,953 0 6	735 7 7	..	
Trichinopoly	..	25,674 1 11	25,674 1 11	327 5 6	25,582 10 8	25,910 0 2	235 14 3	..	
Tanjore	..	5,000 11 3	5,000 11 3	4 0 0	5,033 12 0	5,037 12 0	37 0 9	..	
North Coimbatore	..	19,566 10 6	19,566 10 6	1,624 3 7	19,802 1 3	21,426 4 10	1,859 10 4	..	
South Do.	..	32,742 11 3	32,742 11 3	3,797 0 0	30,018 10 10	33,815 10 10	1,072 15 7	..	
Madura	..	22,963 8 2	22,963 8 2	3,338 6 0	22,037 15 5	25,376 5 5	2,412 13 3	..	
Tinnevelly	..	34,046 15 0	34,046 15 0	2,476 1 11	34,711 11 5	37,187 13 4	3,140 14 4	..	
North Malabar	..	9,551 1 10	9,551 1 10	2,178 9 5	9,569 15 0	11,748 8 5	2,197 6 7	..	
South Do.	..	63,421 7 9	63,421 7 9	525 15 5	68,752 15 2	69,278 14 7	5,857 6 10	..	
South Canara	..	35,412 12 9	35,412 12 9	10,394 12 8	30,666 7 10	41,061 4 6	5,648 7 9	..	
Total ..	..	3,79,601 1 0	3,79,601 1 0	27,902 7 11	3,76,545 5 11	4,04,447 13 10	24,846 12 10	..	

Madras,
10th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 66.

Forest Department, Madras, Southern Circle.

Revenue received and outstandings on account of revenue during 1887-88.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Direction	Timber and other produce.	..	141 2 6	141 2 6	141 2 6	..
Chingleput ..		..	20,153 1 9	20,153 1 9	20,153 1 9	..
North Arcot ..		3,454 10 0	1,03,033 4 0	1,06,487 14 0	1,05,903 15 4	583 14 8
South Arcot ..		167 8 0	92,173 11 5	92,341 3 5	91,211 14 0	1,129 5 5
Salem		..	1,26,408 11 11	1,26,408 11 11	1,26,408 11 11	..
Trichinopoly ..		759 8 3	50,334 4 1	51,093 12 4	50,387 1 4	706 11 0
Tanjore		..	9,334 12 8	9,334 12 8	9,326 12 8	8 0 0
North Coimbatore.		* 20,419 9 9 — 19,200 0 0	83,387 10 1	84,607 3 10	83,541 2 5	1,066 1 5
South Do.		2,711 1 7	72,583 15 4	75,295 0 11	72,283 11 10	3,011 5 1
Madura		1,460 13 3	59,722 5 5	61,183 2 8	58,609 13 5	2,573 5 3
Tinnevelly ..		1,438 0 5	55,796 7 0	57,234 7 5	56,793 8 9	440 14 8
North Malabar ..		..	28,159 9 11	28,159 9 11	28,159 9 11	..
South do. ..		74 7 0	50,486 10 7	50,561 1 7	50,082 1 3	479 0 4
South Canara ..		120 0 0	57,075 1 10	57,195 1 10	57,194 1 10	1 0 0
	Total ..	(a) 30,605 10 3 — 1,9200 0 0	8,08,790 12 6	8,20,196 6 9	8,10,196 12 11	(a) 9,999 9 10

* Arrears of tree rents written off under G.O., dated 19th August 1887, Mis. No. 4897, Revenue Department.

		RS. A. P.	RS. A. P.
(a) Under Budget head	I	4,678 9 8	1,917 12 5
,, ,,	II	25,922 0 7	7,703 11 5
,, ,,	III	5 0 0	..
,, ,,	V	..	378 2 0
	Total ..	30,605 10 3	9,999 9 10

Madras,
13th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 67.

Forest Department, Madras, Southern Circle.

Financial results of the year 1887-88.

District.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY.		OTHER REVENUE.		FORMATION, PROTECTION AND IMPROVEMENT OF FORESTS.	TOTAL.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction	..	..	141	8	..	141	8
Chingleput	858	2,393	19,295	6,891	11,900	20,153	21,184
North Arcot	11,210	12,803	94,694	20,323	32,710	1,05,904	65,836
South do.	15,394	14,752	75,818	15,913	27,660	91,212	58,325
Salem	1,710	5,695	1,24,699	32,386	33,013	1,26,409	71,094
Trichinopoly	15,104	15,083	35,283	11,942	15,644	50,387	42,669
Tanjore	333	109	8,994	1,952	5,799	9,327	7,860
North Coimbatore	5	1,267	83,536	23,561	16,469	83,541	41,297
South do.	28,888	34,574	43,396	18,063	13,832	72,284	66,469
Madura	4,775	9,385	53,834	16,375	18,004	58,609	43,764
Tinnevelly	6,713	11,269	50,081	18,139	21,467	56,794	50,875
North Malabar	22,034	12,130	6,126	3,631	16,487	28,160	32,248
South do.	41,741	26,645	8,341	5,063	68,520	50,082	1,00,228
South Canara	41,365	43,539	15,829	9,954	9,068	57,194	62,561
Total ..	1,90,130	1,89,644	6,20,067	1,84,201	2,90,573	8,10,197	6,64,418

Annual Form No. 68.

Forest Department, Madras, Southern Circle.

Trees felled by Government Agency during the year 1887-88.

(Selection Fellings).

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Chingleput ..	....	....	*Nil.*							
North Arcot ..	Gudiyátam range ..	Casuarina trees	..	126	126	Transferred to form No. 69 ..	126	126	..	
	Chittur Range ..	Do.	..	39	39	Do. do. do.	39	39	..	
	Pólúr do. ..	Do.	..	15	15		15	15	..	
	Chandragiri range ..	Do.	..	20	20		20	20	..	
		Total of district ..	..	200	200		200	200	..	
South Arcot ..	Chengam circle forest.	Vengai	..	91	91	Converted into poles 242	91	91	..	
	Checkadi do.	Do.	..	137	137		137	137	..	
		Acha	..	3	3	Do. into logs .. 3	3	3	..	
		Mango-wood	..	2	2	Do. do. .. 7 Do. into poles .. 11	2	2	..	
	Chengam and Checkadi.	Miscellaneous timber	..	1,277	1,277	Do. do. .. 1,451	1,277	1,277	..	
		Total of district ..	..	1,510	1,510		1,510	1,510	..	
Salem	Hosúr range ..	Teak	..	3	3	Transferred to form No. 69 ..	3	3	..	
		Bilvaram	..	28	28		28	28	..	
		Junglewood	..	313	313		313	313	..	
		Miscellaneous timber	..	636	636		636	636	..	
		Total of district ..	..	980	980		980	980	..	
Trichinopoly ..	Kulitalai range ..	Casuarina trees	..	14	14	Transferred to form No. 69 ..	14	14	..	
		Babul	..	1	1		1	1	..	
		Vagai	..	2	2		2	2	..	
		Dalbergia sissu	..	3	3		3	3	..	
		Ficus Indica	..	1	1		1	1	..	
		Total of district ..	..	21	21		21	21	..	

Trees felled by Government Agency during the year 1887-88—*cont.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Tanjore	....	....	*Nil.*							
North Coimbatore.	....	....	*Nil.*							
South Coimbatore	No I. Tunakadavu range.	Teak	..	366	366	Converted into logs .. 497 / rafters .. 154	366	366	..	
		Rosewood	..	5	5	Do. into rafters .. 5	5	5	..	
		Miscellaneous trees	..	118	118	Do. into logs .. 148	118	118	..	
	No. II. Pollâchi range.	Teak	..	115	115	Do. into logs .. 88 / rafters .. 27	115	115	..	
		Rosewood	..	17	17	Do. into logs .. 17	17	17	..	
		Vengai	..	1	1	Do. into logs .. 1	1	1	..	
		Total of district ..	..	622	622	Do. into logs .. 730 / rafters .. 186	622	622	..	
Madura	No. I. Periyakulam range.	Teak	..	4	4	Converted into logs.	4	4	..	
		Blackwood	..	22	22	Do. into 22 logs. ..	22	22	..	
		Vengai	..	90	90	Converted into logs	90	90	..	
		Miscellaneous trees	..	3	3	Do. do. ..	3	3	..	
	No. Kodaikánal ..	Vagai and Naval	9	66	75	Do. into 80 logs ..	75	75	..	
		Total of district ..	9	185	194		194	194	..	
Tinnevelly ..	Ambásamudram ..	Kongu	..	217	217	Converted into 3,505 scantlings. 213 / Lost in the river .. .. 2 / Wastage 1	216	216	1	
North Malabar ..	Begur	Benteak	..	6	6	Converted into 9 logs	6	6	..	
		Miscellaneous trees	..	8	8	Do. into 10 do.	8	8	..	
		Total of district ..	..	14	14	Do. into 19 logs.	14	14	..	

Trees felled by Government Agency during the year 1887-88—*cont.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
South Malabar ..	Nilambúr	Teak	10	..	10	Converted into 16 logs ..	10	10	..	
		Blackwood	39	66	105	Transferred to form No. 69 ..	105	105	..	
		Miscellaneous trees	90	229	319	Do do. ..	319	319	..	
	Pálghat	Blackwood	19	38	57	Converted into 85 logs	56	57	..	
						Given up	1			
		Miscellaneous trees	2	125	127	Converted into 214 logs ..	125	125	2	
		Vengai	..	1	1	Do do 1 log	1	1	..	
		Total of district ..	160	459	619		617	617	2	
South Canara ..	Condapur range ..	Rosewood	1	19	20	Converted into 20 logs	17	18	2	
						Struck out	1			
		Miscellaneous trees	4	96	100	Converted into 91 logs	90	95	5	
						Struck out	4			
						Abandoned	1			
	Uppinangadi range ..	Rosewood	7	1	8	Converted into 3 logs	3	3	5	
		Vengai	3	..	3	Do. into logs	3	3	..	
		Miscellaneous trees	296	93	389	Do. into 304 logs ..	304	316	73	
						Do. into 14 boats ..	12			
		Total of district ..	311	209	520		435	435	85	
		ABSTRACT.								
		Teak	10	488	498	Converted into 605 logs ..	495	498	..	
						Converted into 181 rafters ..				
						Transferred to form No. 69 ..	3			
		Benteak	..	6	6	Converted into 9 logs	6	6	..	
		Vengai	12	386	398	Do. into 175 logs ..	398	398	..	
						Do. into 242 poles ..				
		Casuarina trees	..	214	214	Transferred to form No. 69 ..	214	214	..	
		Rosewood	66	168	234	Converted into 147 logs ..	120	227	7	
						Converted into 5 rafters ..				
						Transferred to form No. 69 ..	105			
						Rejected	2			
		Junglewood	..	313	313	Transferred to form No. 69 ..	313	313	..	
		Miscellaneous trees	392	2,842	3,234	Converted into 1,462 poles ..	2,155	3,153	81	
						Converted into 780 logs ..				
						Converted into 14 boats ..				
						Converted into 3,505 scantlings				
						Transferred to form No. 69 ..	990			
						Lost	2			
						Rejected	2			
						Struck out	4			
		Total ..	480	4,417	4,897		..	4,809	88	

Annual Form No. 69.

Forest Department, Madras, Southern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
Chingleput.	Tiruvallúr ..	Fuel	30	135	43	200	73	335	Converted into charcoal and sold.	(a) 64	2,209	..	..
									Sold	7	..		
									Wastage	1	366		
		Firewood	..	..	199	2,239	199	2,239	Sold	199	2,239	..	..
		Do. billets ..	..	..	13	..	13	..	Do.	13	..	..	..
		Do. stumps dug out.	..	..	19	1,320	19	1,320	Do.	1	1,120	18	200
	Chingleput ..	Firewood	..	..	17	300	17	300	Do.	17	300	..	..
		Total of district ..	30	135	292	1,819	322	1,954	..	304	1,754	18	200
North Arcot.	Chittur range.	Casuarina branchwood.	..	..	Tons. 3	..	Tons. 3	..	Sold	Tons. 3	..	..	..
		Casuarina trees ..	..	..	No. 39	..	No. 39	..	Do.	No. 39	..	..	..
	Chandragiri ..	Redwood roots and stumps.	..	..	Tons. 311	..	Tons. 311	..	Carted to Mamandúr and Nagapatla depôts.	Tons. 311	..	..	..
		Casuarina trees ..	..	..	No. 20	..	No. 20	..	Sold to Executive Engineer, Rénigunta.	No. 20	..	..	..
	Gudiyátam ..	Casuarina wood ..	..	..	Tons. 978	lb. 1,120	Tons. 978	lb. 1,120	Sold to Messrs. Morrison and Sons.	Tons. 977	lb. ..	..	..
									Sold to public ..	1	1,120		
		Do. branchwood.	Tons. 75	lb. 1,307	214	2,053	290	1,120	Sold to public ..	11	..	..	..
									Sold to Messrs. Morrison and sons.	279	1,120		
		Do. trees ..	..	..	No. 126	..	No. 126	..	Do. do. ..	No. 70	..	..	..
									Sold to Executive Engineer.	46	..		
									Sold to public ..	10	..		
	Vellore range ..	Babul wood ..	..	..	Tons. 117	lb. 104	Tons. 117	lb. 104	Carted to Jail depôt.	Tons. 117	lb. 104	..	..

(a) Outturn Tons 13 lb. 276.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
North Arcot—*cont.*	Vellore range—*cont.*	Bamboos	..	..	No. 500	..	No. 500	..	Sold to Nizam's Government.	No. 500	..	..	..
					Tons.	lb.	Tons.	lb.		Tons.	lb.		
	Arcot range ..	Casuarina wood ..	..	..	79	373	79	373	Carted to Jail depôt ..	78	1,493	..	..
									Sold to public ..	..	1,120	..	..
		Do. branch-wood.	..	..	20	..	20	..	Do.	20	..	..	..
					No.		No.			No.			
		Palmyra trees ..	..	..	6	..	6	..	Sold to Sub-Collector.	6	..	..	..
	Pólúr range ..	Casuarina trees ..	..	..	15	..	15	..	Sold to public ..	15	..	..	..
					Tons.	lb.	Tons.	lb.		Tons.	lb.		
	Javadi range ..	Sandalwood roots and stumps.	..	..	26	76	26	76	Carted to Vellore sandalwood depôt.	26	76	..	..
					No.	C. ft. Pts.	No.	C. ft. Pts.		No.	C. ft. Pts.		
South Arcot.	I. Tiruvannámalai range.	Vengai poles ..	..	..	242	426—11	242	426—11	Removed to Tiruvannámalai depôt.	236	416—3	..	..
									Sold	6	10—8		
		Acha logs	..	..	3	29—0	3	29—0	Removed to Tiruvannámalai depôt.	3	29—0	..	..
		Mango-wood logs and poles.	..	..	18	155—2	18	155—2	Do.	18	155—2	..	..
		Miscellaneous timber poles.	..	..	1,451	2,920—8	1,451	2,920—8	Do.	1,072	2,283—9	..	..
									Sold	379	636—11		
					Tons.	lb.	Tons.	lb.		Tons.	lb.		
		Dead firewood ..	..	..	..	1,120	..	1,120	Removed to Tiruvannámalai depôt.	..	1,120	..	..
		Sandalwood billets.	..	..	..	21	..	21	Sold	..	21	..	..
		Do. roots..	..	..	..	14	..	14	Do.	..	14	..	..
		Miscellaneous seeds.	..	..	11	276⅔	11	276⅔	Do.	11	276⅔	..	..
									Do.	6	1,806		
		Gallnuts	..	..	7	126	7	126	Removed to Tiruvannámalai depôt.	..	560	..	..
		Sembram bark ..	..	..	2	280	2	280	Sold	2	280	..	..
									Do.	..	146		
		Honey	..	..	..	220⅛	..	220⅛	Removed to Tiruvannámalai depôt.	..	74⅛	..	..
									Do.	..	5		
		Wax	..	..	..	61	..	61	Sold	..	56	..	..
					No.		No.			No.			
	II. Tindivanam range.	Miscellaneous timber.	..	..	3	..	3	..	Sold	3	..	..	..
		Bamboos	..	..	5	..	5	..	Do.	5	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot—*cont.*	II. Tindivanam range—*cont.*	Honey	Tons. ..	lb. ..	Tons. ..	lb. 12	Tons. ..	lb. 12	Sold	Tons. ..	lb. 4	..	..
									Removed to Tindivanam depôt.	..	8		
		Wax	..	..	..	4	..	4	Do.	..	4		
	III. Villupuram range.	Babul firewood ..	34	..	895	2,232	929	2,232	Sold	928	2,232	Tons. 1	..
		Bamboos	..	..	..	112	..	112	Do.	..	112	..	..
		Do.	..	..	No. 31	..	No. 31	..	Do.	No. 31	..	..	..
		Grass	..	..	..	lb. 336	..	lb. 336	Do.	..	lb. 336	..	..
		Casuarina timber poles.	..	..	No. 1887	C. ft. Pts. 3,700—7	No. 1887	C. ft. Pts. 3,700—7	Do.	No. 1,615	C. ft. Pts. 2,614—8	No. 51	C. ft. 480—7
									Supplied free to South Arcot District Jail Department.	69	194—11		
									Converted into firewood and sold.	..	(*b*) 152—5		
	IV. Cuddalore range.	Casuarina firewood.	Tons. 16	lb. 1,978	Tons. 757	lb. 1,005	Tons. 774	lb. 743	Used by department ..	152	258—0		
									Sold	Tons. 748	lb. 304		
									Supplied to backwater canal work.	4	..	Tons. 17	lb. 1,895
									Supplied to Jail Department.	4	784		
		Babul firewood ..	..	..	No. 172	..	No. 172	..	Sold	No. 172	..	..	..
		Mango fruits ..	..	..	195	..	195	..	Do.	195	..	..	..
		Wax	..	..	..	1 oz.	..	1 oz.		..	..	..	1 oz.
	VII. Vridhá-chalam.	Velvelam stripped firewood.	..	..	Tons. 51	..	Tons. 51	..	Do.	Tons. 51	..	..	..
		Velvelam bark.	..	..	5	..	5	..	Do.	5	..	..	..
	Chidambaram.	Kandan poles ..	..	..	No. 25	C. ft. Pts. 34—8	No. 25	C. ft. Pts. 34—8	Removed to Chidambaram depôt.	No. 25	C. ft. Pts. 34—8	..	..
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
		Do. firewood.	398	1,889	639	889	1,038	538	Sold	107	1,839	241	2,038
									Remove to Chidambaram depôt.	687	1,739		
									Used by department ..	..	1,642		

(*b*) Outturn Tons 3 lb. 1,872.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot—*cont.*	Chidambaram —*cont.*	Honey	..	..	..	lb. 1¼	..	lb. 1¼	Sold	..	lb. 1¼	..	..
		Other minor produce.	..	..	No. 8,000	..	No. 8,000	..	Removed to Chidambaram depôt.	No. 8,000	..	..	..
Salem.	Salem ..	Firewood	..	..	Tons. 57	lb. 1,680	Tons. 57	lb. 1,680	Sold	Tons. 57	lb. 1,680	..	..
		Bamboos	..	..	4	448	4	448	Do.	4	448	..	..
	Hosúr ..	Bilvaram	..	..	No. 28	C. ft. Pts. 239—4	No. 28	C. ft. Pts. 239—4	Removed to sale depôt.	No. 28	C. ft. Pts. 239—4	..	..
		Teak	..	..	3	7—1	3	7—1	Do. ..	3	7—1	..	..
		Junglewood ..	..	..	313	222—8	313	222—8	Do. ..	313	222—8	..	..
		Miscellaneous timber.	..	..	653	732—3	653	732—3	Do. ..	653	732—3	..	..
		Firewood	..	..	Tons. 12	lb. 840	Tons. 12	lb. 840	Do. ..	Tons. 12	lb. 840	..	..
		Bamboos (1,200) ..	..	..	7	..	7	..	Do. ..	7	..	..	..
		Sandalword roots ..	..	..	..	934½	..	934½	Do. ..	..	934½	..	..
		Do. billets .	..	..	..	1785	..	1,785	Do. ..	..	1,785	..	..
		Do. chips ..	..	..	..	192½	..	192½	Do. ..	..	192½	..	..
Trichinopoly.	Trichinopoly.	Timber	..	..	..	C. ft. 70	..	C. ft. 70	Sold	..	C. ft. 70	..	..
		Firewood	..	..	Tons. 120	lb. 224	Tons. 120	lb. 224	Sold to South Indian Railway.	Tons. 100	..	Tons. 12	lb. 224
									Do. in retail	8	..		
	Kulitalai. ..	Miscellaneous trees.	..	..	No. 21	..	No. 21	..	Do.	No. 21	..	..	..
		Firewood	Tons. 216	lb. 1,084	Tons. 2,643	lb. 851	Tons. 2,858	lb. 1,935	Carted to Trichinopoly depôt.	Tons. 216	lb. 1,344	..	..
									Sold to South Indian Railway.	2,243	1,487		
									Do. in retail	398	1,344		
		Bamboos	..	..	No. 37	..	No. 37	..	Do. ..	No. 37	..	..	..
	Udayár-palaiyam.	Firewood	..	..	Tons. 1,081	lb. 1,297	Tons. 1,081	lb. 1,297	Carted to Tiruvádi depôt.	Tons. 369	lb. 1,297	..	..
					No. 12	..	No. 12	..	Carted Kumbakónam depôt.	712	..		
									Sold	No. 12	..		

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Trichinopoly—*cont.*	Musiri ..	Charcoal .. .	..	..	Tons. 1	lb. 224	Tons. 1	lb. 224	Sold	Tons. 1	lb. 224	..	..
		Vembadam bark ..	..	..	1,269½ measures.	..	1269½ measures.	..	..	..	..	1,269½ measures	..
		Gallnuts	..	..	800 ,,	..	800 ,,	..	..	..	..	800 ,,	..
	Perambalúr ..	Do.	..	..	752 ,,	..	752 ,,	..	..	..	..	752 ,,	..
Tanjore.	Northern range, Vettangudi forest.	Firewood	..	..	Tons. 115	lb. 1,120	Tons. 115	lb. 1,120	Sold	Tons. 111	lb. 1,120	Tons. 4	lb. ..
North Coimbatore.	Kóllegal ..	Blackwood	..	..	2 pieces.	..	2 pieces.	..	Sold	2 pieces.	..	..	..
South Coimbatore.	I. Tunakadavu range.	Teak..	No. 443	C. ft. 20,077	No. 497	C. ft. 20,649	No. 940	C. ft. 40,871	Carted to Vellarugu ..	No. 665	C. ft. 26,514	No. 261	C. ft. 13,631
					Excess by measurement.	145			Do. Venthamudi ..	14	726		
		Teak rafters ..	..	..	(*c*)371	4,074	371	4,074	Do. Vellarugu ..	184	1,975		
									Do. Coimbatore ..	45	439	..	..
									Do. Pollâchi ..	142	1,660		
		Rosewood rafters ..	..	..	5	72	5	72	Do. do.	5	72	..	..
		Miscellaneous trees .	..	..	148	3,960	148	3,960	Do. do.	85	2,311	..	..
									Do. Adivaram ..	63	1,649		
						lb.		lb.			lb.		lb.
		Cardamoms	..	..	..	1,426$\frac{61}{64}$	..	1,426$\frac{61}{64}$	Removed to sale depôt.	..	1,424$\frac{39}{64}$	..	2$\frac{1}{32}$
		Honey	..	..	3,109 measures.	..	3,109 measures.	..	Do. ..	3,109 measures.	..	..	..
		Rattans (1st, 2nd and 3rd sort).	..	..	No. 25,310	..	No. 25,310	..	Do. ..	No. 25,135	..	No. 175	..
					Tons.	lb.	Tons	lb.		Tons.	lb.	Tons.	lb.
		Elephant tusk ..	..	..	..	3½	..	3½	Do. ..	..	3½	..	..
		Seakoy	..	..	2	957½	2	957½	Do. ..	..	187½	2	770
		Dammer (1st and 2nd sort). ..	..	..	3	1,551⅞	3	1,551⅞	Do. ..	3	1,370⅝	..	181¼
		Do.	..	..	..	(*d*) 1,778⅛	...	1,778⅛	Do. ..	..	1,778⅛	..	..
		Wax	..	..	1	2,148$\frac{9}{32}$	1	2,148$\frac{9}{32}$	Do. ..	1	2,148$\frac{9}{32}$	..	..
		Turmeric	..	..	..	643¾	..	643¾	Do. ..	..	643¾	..	..
		Mattipal	..	..	..	57$\frac{7}{24}$	..	57$\frac{7}{24}$	Do. ..	..	57$\frac{7}{24}$	..	..
		Deer horns	..	..	..	216$\frac{13}{32}$	..	216$\frac{13}{32}$	Do. ..	..	216$\frac{13}{32}$	..	..
		Pepper	..	..	..	86$\frac{47}{48}$	..	86$\frac{47}{48}$	Do. ..	..	85$\frac{95}{48}$	..	1$\frac{47}{48}$

(*c*) Of this, 154 are from form No. 68 and the remainder from wind fallen trees.

(*d*) Collected in previous year and omitted from those years returns.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Coimbatore—*cont.*	II. Pollâchi range.	Teak	..	..	No. 115	C. ft. 1,772	No. 115	C. ft. 1,772	Carted to Anaimalai depôt.	No. 115	C. ft. 1,772	..	..
		Rosewood	..	..	17	248	17	248	Do. ..	17	248	..	..
		Vengai	..	..	1	18	1	18	Do. ..	1	18	..	..
		Minor produce ..	..	..	..	lb. 750	..	lb. 750	Sold	..	lb. 750	..	..
		Cardamoms	..	..	..	$712\frac{11}{32}$	..	$712\frac{11}{32}$	Removed to sale depôt.	..	$712\frac{11}{32}$	..	..
		Honey	..	..	$233\frac{1}{2}$ measures.	..	$233\frac{1}{2}$ measures.	..	Do. ..	$233\frac{1}{2}$ measures.	..	..	..
		Rattans (1st and 2nd sort).	..	..	No. 4,025	..	No. 4,025	..	Do. ..	No. 4,025	..	..	..
	III. Punachi range.				Tons.	lb.	Tons	lb.		Tons.	lb.	Tons.	lb.
		Seakoy	..	..	1	135	1	135	Do. ..	1	135	..	..
		Dammer (2nd and 3rd sort).	..	..	2	$288\frac{3}{4}$	2	$288\frac{3}{4}$	Do. ..	2	$288\frac{3}{4}$	..	..
		Wax	..	..	..	$940\frac{5}{8}$	..	$940\frac{5}{8}$	Do. ..	..	$940\frac{5}{8}$	..	..
		Mattipal	..	..	..	$6\frac{27}{28}$	..	$6\frac{27}{28}$	Do. ..	..	$6\frac{27}{28}$	..	..
		Deer horns	..	..	..	$33\frac{19}{32}$	..	$33\frac{19}{32}$	Do. ..	..	$33\frac{19}{32}$	..	..
		Soap beans	..	..	..	900	..	900	Do. ..	..	900	..	..
		Gallnuts	..	..	19	$1,757\frac{1}{2}$	19	$1,757\frac{1}{2}$	Do. ..	18	$1,007\frac{1}{2}$	1	750
		Mustard	..	..	..	75	..	75	Do. ..	..	75	..	..
		Pepper	..	..	..	175	..	175	Do. ..	..	175	..	..
Madura.	I. Range ..	Teak	No. ..	C. ft. ..	Logs, scantlings. 9—54	C. ft. cts. 79—99	Logs, scantlings. 9—54	C. ft. cts. 79—99	Sold	Logs, scantlings. 9—35	C. ft. cts. 61—09	Logs, scantlings. 0—19	C. ft. cts. 18—90
	Vannatiparai.	Blackwood	..	..	54—39	411—27	54—39	411—27	Do. ..	54—22	394—97	0—17	16—30
		Vengai	..	..	43—434	531—31	43—434	531—31	Do. ..	43—392	484—92	0—42	46—39
		Miscellaneous timber	..	..	3	44—53	3	44—53	Do. ..	3	44—53	..	..
	Pambar ..	Vengai	..	..	179	162	179	162	Do. ..	179	162	..	..
	Sengalvaraiar ..	Do.	..	..	3—428	357—95	3—428	357—95	Do. ..	3—428	357—95	..	..
	Pumbarai Vilpati.	Do.	6	276	13—0	$110\frac{7}{12}$	19—0	$386\frac{7}{12}$	Do. ..	11—0	$275\frac{8}{9}$	8—0	$110\frac{2}{36}$
	Perumalmalai ..	Do.	..	..	31—0	$502\frac{5}{6}$ C. ft. $131\frac{1}{4}$ Sq. ft.	31—0 ..	$502\frac{5}{6}$ C. ft. $131\frac{1}{4}$ Sq. ft.	Do. ..	16—0	$348\frac{22}{25}$ $45\frac{1}{2}$ Sq. ft.	15—0	$154\frac{11}{24}$ $85\frac{5}{7}$ Sq. ft.
	Gundan shola.	Vagai and Naval ..	3	160	27—0	91	30	251—0	Do. ..	$14\frac{1}{2}$	$241\frac{3}{8}$	$15\frac{1}{2}$	$9\frac{7}{6}$ C. ft.
		Vengai plank ..	..	229 Sq. ft.	..	1,386 Sq. ft.	..	1,615 Sq. ft.	Do. ..	..	$824\frac{5}{8}$ Sq. ft.	..	$790\frac{3}{8}$ Sq. ft.
					Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
		Firewood	..	..	369	1,115	369	1,115	Transferred to depôt ..	369	1,115	..	..
	Kodaikánal shola.	Do.	..	..	4	615	4	615	Do. ..	4	615	..	..
	V. Madura range.	Do.	..	..	294	1,120	294	1,120	Sold	132	1,512	161	1,848

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
			No.	C. ft.	No.	C. ft.	No.	C. ft.		No.	C. ft.	No.	C. ft.
Tinnevelly.	Southern range Pambanar forest.	Kongu logs ..	1,468	2,300	3,532	3,762	5,000	6,062	Transferred to Kariar forest depôt and sold.	2,169	2,667		
									Do. Ambásamudram depôt.	361	565	(e)1,130	1,676
									Sold	746	853		
									Used by department ..	594	881		
		Vengai logs ..	..	..	4	7	4	7	Transferred to Kariar forest depot.	4	7	..	..
		Miscellaneous logs ..	..	..	15 / No. 22	21	15 / No. 22	21	Do. ..	15	21	..	..
					Tons.	lbs.	Tons.	lbs.	Do. ..	No. 22 Tons.	lb.	Tons.	lb.
	Kusavampalli forest.	Bamboo pattais ..	..	..	12	1,908	12	1,908	Transferred to Kariar forest depot and sold.	2	1,120	2	490
									Do. Ambásamudram sale depot.	1	2,109		
									Do. Tinnevelly do. ..	6	336		
									Used by department ..	..	93		
		Minor produce ..	..	..	..	1,807	..	1,807	....	..	..	..	1,807
	Mandamthorai forest.	Firewood ..	..	..	87	1,120	87	1,120	Sold	87	1,120	..	..
		Charcoal	..	..	30	1,645	30	1,645	Do.	30	1,645	..	..
	Central range Vallam hills.	Miscellaneous pieces.	..	..	No. 264	..	No. 264	..	Do.	No. 264	..	..	..
				C. ft.		C. ft.		C. ft.			C ft.		C. ft.
North Malabar.	Chedleth, Kudrakot and Padri ranges.	Teakwood	..	97,722	..	8,263	..	1,05,985	Sold in forest depots ..	..	38,296	..	67,689
		Blackwood	..	11,984	..	5,679	..	17,663	Do. ..	..	13,709	..	3,954
		Vengai	..	52	..	..	..	52	....	..	..	..	52
		Miscellaneous timber.	..	..	..	663	..	663	Sold	..	663	..	..
				lb.		lb.		lb.			lb.		lb.
		Wax	..	70	..	50	..	120	Sold at Manantoddy ..	..	92	..	20
									Used by department ..	..	8		
		Honey	..	..	..	120	..	120	Sold at Manantoddy ..	..	120	..	..
					No.	C. ft.	No.	C. ft.		No.	C. ft.	No.	
South Malabar.	Nilambúr ..	Teak	..	..	5	..	5	..	....	..	..	5	..
		Do.	..	..	16	478	16	478	Used by department ..	16	478	..	..
		Blackwood	..	..	157	..	157	..	....	..	..	157	..
		Do.	..	..	1	17	1	17	Carted to sale depot ..	1	17	..	..
		Miscellaneous timber.	..	..	1,884	..	1,884	..	....	..	..	1,884	..
		Do. ..	..	..	25	369	25	369	Carted to sale depot ..	25	369	..	..
	Pálghat ..	Blackwood ..	..	..	3	42	3	42	Sold	3	41¾	..	..
									Difference on sale measurement.	..	¼		

(e) Of this, 371—667 C. ft. are in Kariar forest depot.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Malabar—*cont.*	Pálghat—*cont.* ..	Miscellaneous timber.	No. 9	C. ft. 586	No. 298	C. ft. 11,617¾	No. 307	C. ft. 12,203¾	Sold	No. 299	C. ft. 11,692½	No. 8	C. ft. 508
									Difference in sale measurement.	..	3½		
	Panangod plantations.	Teak saplings ..	13,124	15,748	15,111	18,133	28,235	33,881	Taken to Kallai sale depôt.	8,505	10,206	19,730	23,675
				Tons.		Tons.		Tons.			Tons.		
		Bamboos	327	7	7,640	153	7,967	160	Do. ..	6,645	133	191	Tons. 4
									Used by department ..	788	16		
									Sold	340	7		
									Lost in transit to Kallai.	3	..		
			Tons.	lb.			Tons.	lb.		Tons.	lb.		
		Sappan dye-wood ..	2	395	..	..	2	395	Sold	2	395	..	..
		Kariyas	..	..	No. 254	= Tons. 5	No. 254	= Tons. 5	Taken to Kallai depôt.	No. 254	= Tons. 5	..	..
South Canara.	Condapur .. range.	Rosewood	No. 107	C. ft. 1,776	No. 22	C. ft. pts. 374—1	No. 129	C. ft. pts. 2,150—1	Sold	No. 96	C. ft. pts. 1,261—7	No. 33	C. ft pts. 888—6
		Vengai	2	79	..	..	2	79	Do.	1	43	1	36
		Miscellaneous ..	386	11,426	96	2,175	482	13,601	Do.	364	10,948½	118	2,652½
	Udipi range.	Do. ..	51	1,525	..	..	51	1,525	Burnt 1	2	42	49	1,483
									Lost by contractor 1.				
	Uppinangadi.	Rosewood	15	289	5	65—4	20	354—4	To Mangalore depôt ..	18	272	2	82—4
		Véngai	4	134—4	4	98—5	8	232—9	Do. ..	7	177—1	1	55—8
		Miscellaneous ..	135	4,468—6	269	6,049—9	404	10,518—5	Do. ..	217	5,458—1	187	5,060—4
	Kasaragód ..	Teak poles	..	..	150	..	150	..	Sold	150	..	..	..
					Tons.	lb.	Tons.	lb.		Tons.	lb.		lb.
	Condapur ..	Charcoal	..	..	..	840	..	840	Do.	..	728	..	112
	Udipi ..	Firewood	..	..	200	..	200	..	Do.	200	..	..	..
		Bamboos	..	..	No. 2,500	..	No. 2,500	..	....	..	..	No 2,500	..
					Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
	Mangalore ..	Firewood ..	113 poles= Ts. 33—1,160	..	122	2,172	156	1,092	Sold	156	1,092	..	..
		Charcoal	1	700	1	264	2	964	..	..	..	2	964
	Condapur ..	Minor produce ..	..	..	142	1,870	142	1,870	Sold	124	425	18	1,445
	Udipi	Do. ..	..	..	27	1,201½	27	1,201½	Do.	11	1,653½	10	1,482
									Sent to Condapur ..	5	306		
	Mangalore ..	Do. ..	..	..	50	1,023	50	1,023	Sold	45	1,067	4	2,196
	Uppinangadi ..	Do. ..	..	840	39	1,259½	39	2,099½	Do.	38	1,637½	1	462
	Kásaragód ..	Do. ..	..	..	..	631¾	..	631¾	Do.	..	177¾	..	454

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
		Grand Total.											
		Teak	443	117,799	1,016—54	35,468	1,459—54	153,267	To depôt	1,168	33,093—1	266—19	81,338—11
									Sold	9—35	38,357—1		
									Otherwise disposed of.	16	478		
		Do. poles	..	..	No. 150	17 C. ft.	No. 150	17 C. ft.	Sold	No. 150	17 C. ft.	..	..
		Teak saplings ..	13,124	15,748	15,111	18,133	28,235	33,881	To depôt	8,505	10,206	19,730	23,675
		Blackwood	122	14,049	107—39	6,908—8	229—39	20,957—8	Do.	41	609—7	35—17	4,940—5
									Sold	153—22	15,407—6		
		Do.	..	..	159	2,385	159	2,385	Do.	2	30	157	2,355
			No.	C. ft.	No.	C. ft.	No.	C. ft.		No.	C. ft.	No.	C. ft.
		Vengai	12	541—4	520—862	2,215	532—862	2,756—4	To depôt	214	611—4	25—42	464—7
									Sold	263	1,690—5		
		Do. planks ..	229 Sq. ft.	=19C. ft.	1,517¼ Sq. ft.	=126 C. ft.	1,746½ Sq. ft.	= 145 C. ft.	Do.	870⅛ Sq. ft.	= 73 C. ft.	876⅛ Sq. ft.	= 72 C. ft.
									Sold	5,605	30,624—2		
		Miscellaneous timber	2,052	20,465—3	8,478	36,635—2	10,530	57,100—6	Depot	2,550	13,827—3	1,558	11,270
					No.	C. ft.	No.	C. ft.	Otherwise	817	1,379—1		
		Do.	..	..	2,225	22,250	2,225	22,250	Sold	No. 341	3,410 C. ft.	1,884	18,840
		Junglewood ..	..	..	313	222—8	313	222—8	To depot	313	222—8	..	..
		Redwood roots ..	..	..	Tons. 311	..	Tons. 311	..	Do.	Tons. 311	..	..	..
			Tons	lb.	Tons.		Tons.	No.		Tons	lb.	Tons.	lb.
			772	373		lb.			Sold	† 7,132	915		
		Firewood	113 poles	=33 Ts. 1,160 lb.	9364	1,202	10,170	495	Depot	2,568	707	459	561
									Otherwise disposed of.	10	552		
					No.		No.						
		Do.	..	..	441	= Tons. 56	441	= Tons. 56	Sold	No. 187	= Tons 51	..	..
									To depot	,, 254	= ,, 5		
		Bamboos	No. 327	= Ts. 7	No. 10,713	= Tons 214	No. 11,040	= Tons. 221	Sold	No. 913	=Tons 18	No.	
									To depôt	,, 6,645	= ,, 133	2,691 =	Tons. 54
									Otherwise disposed of.	,, 791	= ,, 16		
			Tons	lb.	Tons	lb.	Tons	lb.		Tons.	lb.	Tons.	lb.
		Bamboos	..	..	24	228	24	228	Sold	6	1,680	2	490
									To depôt	15	205		
									Otherwise disposed of.	..	93		
		Sandalwood ..	..	..	27	783	27	783	To depôt	27	748	..	..
									Sold	..	35		
									Sold	248	602		
		Minor produce ..	2	1,305	321	1,524⅝	324	589⅝	To depôt	30	1,302⅝	40	611
									Otherwise disposed of.	5	314		
					Tons lb.		Tons lb.				Tons. lb.		Tons. lb.
		Do.	..	..	=68—1,780		=68—1,780		To depôt	3,342½	=37—682	2,821½	=31-1,098
					measures.		measures.			measures		measures.	
		Do. ..	..	..	No. 37,530	= Tons 31	No. 37,530	= Tons 31	Sold	No. 195	= Tons 30¾	No.	Ton. ¼
									Depot	,, 37,160		175 =	
			No.	C. ft.	No.	C. ft.	No.	C. ft.		No.	C. ft.	No.	C. ft.

* Includes 152 C. ft. sold as firewood (3 Tons 1,872 lb. in South Arcot). † Of this, 64 Tons 2,209 lb. was converted into charcoal (Tons 13—276 lb.) and sold.
Add 3 Tons—1872 lb. the outturn of timber sold as firewood in South Arcot.

Districtwar Abstract of Form No. 69 showing the collection of timber, &c., in the Southern Circle during the year 1887-88.

	Timbers.								Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Total of all produce.	Remarks.
	Teak.	Black or rose-wood.	Vengai.	Other timbers.	Total.	Euqivalent in tons.	Red-wood roots.	Total timber.						
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	
Stock of the Circle at beginning of the year.	117,799 / 15,748	14,049	541 / 19	20,465	168,621	4,216	..	4,216	805	7	..	2	5,030	*a* Saplings *b* Poles.
Chingleput	..	..	..	..	..	..	..	..	293	..	..	..	293	*c* Estimate of 157 poles.
North Arcot	..	..	..	*e* 310	310	8	311	319	1,413 / *k* 22	*n* 10	26	..	1,790	*d* Estimate of 1,517 planks.
South Arcot	..	..	427	*f* 6,870	7,297	182	..	182	2,516	*o* ½	..	26 / *s* 7	2,731½	*e* Estimate of 31 logs.
Salem	7	..	..	1,194	1,201	30	..	30	70	11	1	..	112	*f* Includes 30 cubic feet estimate of 3 logs.
Trichinopoly	..	..	..	*g* 280	280	7	..	7	3,846 / *l* 2	*p* ½	..	*t* 32	3,887½	*g* Includes 210 cubic feet of 21 scantlings.
Tanjore	..	..	..	..	..	..	..	..	116	..	..	..	116	
North Coimbatore	..	30	..	..	30	1	..	1	..	..	..	..	1	
South „	26,640	320	18	3,960	30,938	774	.	774	..	..	..	35 / *u* 24 / *v* 37	870	*h* Includes 2,860 cubic feet of 286 scantlings.
Madura	80	411	1,665 / *d* 126	136	2,418	61	..	61	668	..	..	..	729	*i* Includes 19,090 cubic feet of 1,909 scantlings.
Tinnevelly	..	..	7	*h* 6,643	6,650	166	..	166	118	13	..	1	298	*k* Estimate of 175 poles
North Malabar	8,263	5,679	..	663	14,605	365	..	365	..	..	..	..	365	*l* Estimate of 12 poles.
South „	478	59	..	*i* 30,827	51,852	1,296	..	1,296	*m* 32	*q* 153	..	..	1,481	*m* Do. of 254 „
South Canara	*a* 18,133 / *b* 17	*c* 2,355 / 439	98	8,225	8,779	219	..	219	325	*r* 50	..	260	854	*n* Do. of 500 bamboos.
Collection during the year for the Circle.	53,618	9,293	2,341	59,108	124,360	3,109	311	3,420	9,421	238	27	422	13,528	*o* Estimate of 36 „
Total ..	187,165	23,342	2,901	79,573	292,981	7,325	311	7,636	10,226	245	27	424	18,558	*p* Do. of 37 „ *q* Do. of 7,640 „ *r* Do. of 2,500 „
Sold in the Forests	38,374	15,437	1,763	34,034	89,608	2,240	..	2,240	7,184	25	..	248	9,697	*s* Do. of No. 8191.
Otherwise disposed of	478	..	..	1,379	1,857	47	..	47	10	16	..	5	78	*t* Estimate of 2,822 measures.
Removed to sale depots	43,299	609	611	14,050	58,569	1,464	311	1,775	2,573	148	27	99	4,622	*u* Estimate of No. 29,335.
Total disposals ..	82,151	16,046	2,374	49,463	150,034	3,751	311	4,062	9,767	189	27	352	14,397	*v* Estimate of 3,342 measures.
Stock in the forest on 31st March 1888.	105,014	7,296	527	30,110	142,947	3,574	..	3,574	459	56	..	72	4,161	

ANNUAL FORM

Forest Department,

RECEIPTS and Issues of Timber and other

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	ON HAND, 1st APRIL 1887.		RECEIVED DURING THE YEAR.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Chingleput.	..	..	..					
North Arcot.	..	Mámandúr depôt.	Redwood roots and stumps.	Tons. lb. 15 0	..	Mámandúr forest.	Tons. lb. 111 0	..
	..	Nagapatla depôt.	Do. ..	..	..	Chamala forest.	200 0	..
	..	Vellore jail depôt.	Babul wood ..	191 948	..	Buttur tank bed.	117 104	..
			Casuarina wood ..	..	..	Kilminnel plantation.	78 1,493	
	..	Vellore sandalwood depôt.	Sandalwood roots.	6 430	..	Javadi hills.	26 76	..
South Arcot.	I. Tiruvannámalai.	..	Vengai poles ..	..	C. ft. ..	Chengam circle forest.	No. 99	C. ft. 199 8
						Chekadi ..	137	216 7
		..	Acha logs ..	..	..	Do. ..	3	29 0
		..	Mango wood logs..	..	..	Do. ..	7	76 0
		..	Do. poles..	..	..	Do. ..	11	79 2
		..	Miscellaneous timber poles.	..	..	Chengam ..	704	1,608 3
						Chekadi ..	368	675 6
		..	Firewood ..	Tons. lb. ..	..	..	Tons. lb. 0 1,120	..
		..	Sandalwood billets.	2 222	..	..	..	..
		..	Gallnuts ..	..	..	Tiruvannámalai taluk forest.	0 560	..
		..	Honey	0 11	..	Do. ..	0 74⅛	..
		..	Wax	..	..	Do. ..	0 5	..
		..	Other minor produce.	1 0	..	..	..	..
	II. Tindivanam Range.	..	Vengai poles ..	..	..	Tiruvannámalai taluk forest.	No. 8	13 6
		..	Acha	..	..	Do. ..	1	9 11
		..	Miscellaneous timber poles.	..	..	..	273	722 9
		..	Sandalwood billets.	Tons. lb. ..	..	Tiruvannámalai depôt.	Tons. lb. 1 222	..
		..	Honey	..	..	Tindivanam forest.	0 8	..
		..	Wax	..	..	Do. ..	0 4	..
	IV. Cuddalore.	..	Kandan poles ..	..	..	Pichavaram forest.	No. 25	34 8
		..	Do. firewood..	..	..	Do. ..	Tons. lb. 687 1,739	..
		..	Sandalwood billets.	368½	..	Excess found on reweighing.	0 18	..
		..	Minor produce ..	..	..	Pichavaram.	No. 8,000	..
	Head-quarter office.	..	Sandalwood billets.	0 44	..	..	..	..

No. 70.

Madras, Southern Circle.

Produce in Sale Depôts during the year 1887-88.

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Nil.							
Tons. lb.	C. ft.		Tons. lb.	C. ft.	Tons. lb.	C. ft.	
126 0	..	..	..	..	126 0	..	
200 0	..	..	..	..	200 0	..	
387 305	..	Sold and supplied to Central jail.	133 1,297¼	..	166 319¼	..	
		Do. ..	19 1,099½				
		Sold and supplied to manufactory.	67 2,069				
32 506	..	..	..	..	32 506	..	
No.	C. ft.		No.	C. ft.	No.	C. ft.	
236	416 3	To Tindivanam depôt.	8	13 6	..	..	
		Sold	228	402 9			
3	29 0	Do.	2	19 1	..	..	
		To Tindivanam depôt.	1	9 11			
7	76 0	Sold	7	76 0	..	..	
11	79 2	To Tindivanam depôt.	5	54 3	6	24 11	
1,072	2,283 9	Sold	803	1,609 3	..	..	
		To Tindivanam depôt.	268	668 6			
		Rejected ..	..	1 1			
		Used by department.	1	4 11			
Tons. lb.			Tons. lb.		Tons. lb.		
0 1,120	..	Sold	0 1,120	..	..	..	
2 222	..	Do.	0 270	..	0 1,949	..	
		To Tindivanam depôt.	1 222	..			
		Chengam forest depot.	0 21	..			
0 560	..	Sold	0 560	..	..	..	
0 85⅛	..	Do.	0 85⅛	..	..	..	
0 5	..	Do.	0 5	..	..	..	
1 0	..	Do.	0 1,666	..	..	..	
		Used by department.	0 574	..			
No.			No.		No.		
8	13 6	Sold	8	13 6	..	..	
1	9 11	Do.	1	9 11	..	..	
273	722 9	Do.	273	722 9	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
1 222	..	..	..	..	1 222	..	
0 8	..	Sold	0 8	..	..	..	
0 4	..	..	..	..	0 4	..	
No.			No.		No.		
25	34 8	Sold	25	34 8	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
687 1,739	..	Do.	623 217	..	5 1,022	..	
		Driage ..	52 266	..			
		Used by department.	7 234	..			
0 386½	..	Sold	0 386½	..	..	..	
No.			No.				
8,000	..	Do.	8,000	..	..	..	
Tns. 0 lb. 44	..	..	..	..	0 44	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887. Number or quantity.	On hand, 1st April 1887. Cubic feet.	Received during the year. Whence received.	Received during the year. Number or quantity.	Received during the year. Cubic feet.
				No.	C. ft.		No.	C. ft.
Salem.	..	Pennagaram.	Acha	21	25 5	..	..	..
			Vengai	3	5 10	..	..	..
				lb.				
			Sandalwood ..	364	..	..	..	..
	..	Denkanikóta.	Bilvaram ..	..	..	..	28	239 4
			Teak ..	..	..	..	3	7 1
			Junglewood ..	..	..	..	313	222 8
			Miscellaneous timber.	..	..	..	653	732 3
				Tons. lb.			Tons. lb.	
			Firewood ..	..	..	..	12 840	..
			Sandalwood ..	2 1,071	..	..	1 672	..
			Bamboos (1,200)..	..	..	..	7 0	..
				Tons. lb.			Tons. lb.	
Trichinopoly.	..	Trichinopoly.	Firewood	141 1,344	..	..	216 1,344	..
	..	Tiruvádi ..	Do.	30 1,839	..	..	369 1,297	..
	..	Kumbakónam.	Do.	39 1,504	..	..	712 0	..
Tanjore.	..	..	..					
				Tons. lb.				
North Coimbatore.	..	Satyamangalam.	Sandalwood ..	0 1,681¼	..	..	..	..
				No.	C. ft.		No.	C. ft.
South Coimbatore.	..	Coimbatore depôt.	Teak logs ..	118	3,546 0	Vellaruguadivaram.	431	17,520 0
			Rosewood	6	163 0	..	..	..
			Teak rafters ..	..	..	I. Range..	45	439 0
			Rosewood	144	2,139 0	II. Do. ..	17	248 0
				..	..	Excess measurement of old logs.	..	500 0
	...	Anaimalai depôt.	Teak logs ..	..	..	II. Range..	115	1,772 0
			Vengai	..	..	Do. ..	1	18 0
	..	Vellaruguadivaram.	Teak logs ..	230	8,010 0	I. Range ..	665	26,514 0
			Teak rafters ..	..	..	Do. ..	184	1,975 0
			Miscellaneous logs	..	..	Do. ..	63	1,649 0
			Teak logs ..	..	..	Vellaruguadivaram.	26	1,009 0
			Teak rafters ..	..	..	I. Range ..	142	1,660 0
	..	Pollâchi depôt.	Do. ..	..	..	Vellaruguadivaram.	171	1,801 0
			Rosewood rafters.	..	..	I. Range ..	5	72 0
						Do. ..	85	2,311 0
			Miscellaneous logs.	..	..	Excess on remeasurement.	..	3 0
	..	Venthamudi.	Teak logs ..	..	..	I. Range ..	14	726 0
							Tons. lb.	
			Dammer	..	..	Do. ..	0 1,778⅛	..
	..	Coimbatore.	Cardamoms ..	..	..	I. and III. Ranges.	0 2,136$\frac{61}{64}$	..
			Honey	..	..	Do. ..	* 37 682½	..
							No.	
			Rattans (1st, 2nd and 3rd sort).	..	..	Do. ..	29,160	..
							Tons. lb.	
			Elephant tusk ..	..	..	Do. ..	0 3½	..

in Sale Depôts during the year 1887-88—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
No.	C. ft		No.	C. ft.	No.	C. ft.	
21	25 5	Sold	19	22 4	2	3 1	
3	5 10	Do.	1	1 11	2	3 11	
lb.			lb.				
364	..	Do.	364	..	..	..	
28	239 4	Do.	28	239 4	..	..	
3	7 1	Do.	1	2 7	2	4 4	
313	222 8	Do.	313	222 8	..	..	
653	732 3	Do.	653	732 3	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
12 840	..	Do.	12 840	..	..	..	
3 1,743	..	Do.	2 1,071	..	1 672	..	
7 0	..	Do.	7 0	..	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
358 448	..	Sold	358 448	..	..	..	
399 2,136	..	Do.	329 1,344	..	70 1,792	..	
751 1,504	..	Do.	742 1,056	..	9 448	..	

Nil.

Tons. lb. 0 1,681¼	..	..	..	..	Tons. lb. 0 1,681¼	..
No.	C. ft.		No.	C. ft.	No.	C. ft.
549	21,066 0	Sold	233	9,419 0	316	11,647 0
6	163 0	Do.	6	163 0	..	..
45	439 0	Do.	25	245 0	20	194 0
161	2,887 0	Sold	161	2,867 0	..	..
		Wastage ..	..	20 0		
115	1,772 0	Sold	115	1,692 0	..	..
		Wastage ..	..	80 0		
1	18 0	Sold	1	18 0	..	..
895	34,524 0	Carted to Coimbatore.	431	17,520 0	434	15,835 0
		Carted to Pollâchi.	26	1,009 0		
		Sold	4	160 0		
184	1,975 0	Carted to Pollâchi.	171	1,801 0	..	..
		Sold	13	174 0		
63	1,649 0	Do.	63	1,649 0	..	..
26	1,009 0	..	..	..	26	1,009
142	1,660 0	Sold	63	794 0	250	2,664 0
171	1,801 0	Difference on remeasurement.	..	3 0		
5	72 0	Sold	5	72 0	..	..
85	2,314 0	Do.	85	2,314 0	..	..
14	726 0	..	..	..	14	726 0
Tons. lb.			Tons. lb.		Tons. lb.	
0 1,778⅛	..	Sold	0 1,673⅞	..	..	..
		Wastage ..	0 10⅛	..		
		Written off, being mere dust.	0 93¾	..		
0 2,136⅝	..	Sold	0 2,136⅝	..	..	..
37 682½	..	Do.	37 682½	..	..	..
No.			No.			
29,160	..	Do.	29,160	..	..	..
Tons. lb.			Tons. lb.			
0 3½	..	Do.	0 3½	..	..	..

* The equivalent of 3,342½ measures.

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
							Tons. lb.	C. ft.
South Coimbatore—*cont.*	..	Coimbatore—*cont.*	Dammer (1st, 2nd and 3rd sort).	..	..	I and III Range.	5 1,659$\frac{3}{8}$	..
			Wax	..	..	Do. ..	2 848$\frac{32}{32}$	..
			Gallnuts	..	..	Do. ..	18 1,042$\frac{1}{2}$	..
			Other minor produce.	..	..	Do. ..	2 275$\frac{16}{16}$	..
				Tons. lb.			Tons. lb.	
Madura.	..	Kodaikánal firewood depôt.	Firewood	28 2,205	..	Gundan shola and other plantations.	373 1,730	..
			Collections of previous year omitted but now ordered to be included by the Examiner.	..	..	..	1 185	..
				No.	C. ft.		No.	C. ft.
Tinnevelly.	South Range.	Ambásamudram depôt.	Kongu logs ..	89	54	Pambar forest.	361	565
			Miscellaneous pieces.	155	..	....	..	..
						Kariar forest depôt.	Tons. lb. 1 2,109	..
			Bamboo pattais ..	..	..	Tinnevelly depôt.	0 149	..
	Tinnevelly Subrange.	Tinnevelly Cusba depôt.	Do. ..	..	..	Kariar forest depôt.	6 336	..
North Malabar.	..	..						*Nil*
				No.	C. ft.		No.	C. ft.
South Malabar.	Nilambúr.	Panangod (clearing).	Teak	97	1,549	..	..	..
			Blackwood ..	3	52	From clearing.	1	17
			Miscellaneous logs.	193	2,372	Do. ..	2	24
			Miscellaneous poles.	104	302	..	..	..
		Ponangod (selection)	Teak	228	2,352	..	..	..
			Blackwood ..	21	205	..	..	..
			Miscellaneous logs.	188	2,633	..	22	330
		Pokod forest depôt	Teak	44	832	..	..	..
			Blackwood ..	87	1,239	..	..	..
			Miscellaneous logs.	112	1,578	..	1	15
			Miscellaneous timber.	20	..	..	..	..
		Kallai depôt.	Teak saplings, superior, large.	2,829	31,739	..	..	..
			Do. small ..	2,709		..	4	
			Do. classified.	47,019		..	8,501	10,206

in Sale Depôts during the year 1887-88—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Tons. lb.	C. ft.		Tons. lb.	C. ft.	Tons. lb.	C. ft.	
5 1,659⅜	..	Sold	5 1,562½	..	..	..	
		Wastage ..	0 96⅞	..			
2 848²⁹/₃₂	..	Wastage ..	2 848²⁹/₃₂	..	..	..	
18 1,042½	..	Sold	18 1,042½	..	..	..	
2 275³⁵/₄₈	..	Do.	2 275³⁵/₄₈	..	..	..	
Tons. lb.	C. ft.		Tons. lb.	C. ft.	Tons. lb.	C. ft.	
403 1,880	..	Sold	227 1,270	..	176 610	..	
No.	C. ft.		No.	C. ft.	No.	C. ft.	
450	619	Sold	399	577	14	18	
		Used by department.	37	24			
155	..	Sold	155	..	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
1 2,109	..	Sold	0 709	..	0 1,549	..	
0 149	..	Used by department.	1 0	..			
6 336	..	Sold	1 1,951	..	4 476	..	
		Transferred to Ambásamudram depôt.	0 149	..			
No.	C. ft.		No.	C. ft.	No.	C. ft.	
97	1,549	Sold	22	96	..	..	
		Used by department.	75	1,453			
4	69	Sold	3	52	..	..	
		Rejected ..	1	17			
195	2,396	Sold	188	2,372	..	..	
		Rejected ..	7	24			
104	302	Sold	104	302	..	..	
228	2,352	Sold	152	977	..	..	
		Used by department.	71	1,375			
		Rejected ..	5				
21	205	Sold	21	205	..	..	
210	2,963	Rejected ..	7	2,963	..	..	
		Sold	203				
44	832	Sold	22	265	..	..	
		Used by department.	22	567			
87	1,239	Sold	87	1,239	..	..	
113	1,593	Do.	113	1,593	..	..	
20	..	....	..	..	20	..	
2,829	11,316	Sold	* 1,181	5,639	1,648	5,677	* Of these, 574 saplings of 305 cubic feet were sold as firewood.
2,713	5,426	Do.	* 1,347	2,694	1,366	2,732	
55,520	25,203	Sold	* 41,862	17,909	13,645	7,294	
		Rejected ..	13				

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1857.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
South Malabar —*cont.*	Nilambúr—*cont.*	Kallai depót—*cont.*	Bamboos (whole and pieces.)	No. 7,786 = 156 tons.		..	No. 6,645 = 133 tons.	
			Kariyas	,, 2,775 = 56 ,,		..	,, 254 = 5 ,,	
South Canara.	..	Mangalore.		No.	C. ft.		No.	C. ft.
			Rosewood.. ..	22	417	Uppinangadi range.	18	272 7
			Vengai	4	82	Do. ..	7	177 1
			Miscellaneous logs.	68	1,584	Do. ..	217	5,458 1
								GRAND
				No.	C. ft.		No.	C. ft.
			Teak	717	16,289	..	(*a*) 1,796	53,423
			Teak saplings ..	52,557=31,739 C.ft.		..	8,505=10,206 C. ft.	
			Rosewood ..	283	4,215	..	41	(*d*)1,109 7
			Vengai	7	(*b*) 87 10	..	(*c*) 252	624 10
			Junglewood ..	..	..	..	313	222 8
			Miscellaneous timbers.	775	8,548	..	2,824	(*e*) 14,561
			Do. ..	No. 175=1,750 C.ft.		..	..	..
			Redwood roots ..	Tons. 15	..	..	Tons. 311	..
			Firewood and charcoal.	Tons. lb. 432 1,120	..	..	Tons. lb. 2,569 892	..
			Do. ..	No. 2,775 = 56 tons.		..	No. 254 = 5 tons.	
			Bamboos	..	..	..	Tons. lb. 15 354	..
			Do.	No. 7,786 = 156 tons.		..	No. 6,645 = 133 tons.	
			Sandalwood roots and billets.	11 1,940¾	..	..	(*f*) 28 988	..
			Minor produce ..	1	11	..	(*g*) 68 167⅛	..
			Do. ..	..	..	..	No. 37,160 = 30¾ tons.	

in Sale Depôts during the year 1887-88—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
No. 14,431 = 289 tons. ,, 3,029 = 61 ,,		Sold .. Used by department. Sold as firewood.	No. 14,074 = 282 tons. ,, 357 = 7 ,, ,, 2,993 = 60 ,,		.. No. 36 = 1 ton.	..	
No.	C. ft.		No.	C. ft.			
40	689 7	Sold	40	689 7	..	..	
11	259 1	Do.	11	259 1	..	..	
285	7,042 1	Sold .. Carried away by tide and found by Port officer, Mangalore.	284 1	7,014 0 28 1	..	..	
TOTAL.							
No.	C. ft.		No.	C. ft.	No.	C. ft.	
2,513	69,712	Sold .. Sent to other depôts. Otherwise disposed of.	650 628 173	13,825 20,330 3,478	1,062	32,079	(*a*) Includes No. 628, C. ft. 20,330, received from depôts in South Coimbatore.
61,062	41,945	Sold .. Do. as firewood. Otherwise ..	43,816 574 13	26,242	16,659	15,703	
324	5,324 7	Sold .. Otherwise ..	323 1	5,287 7 37 0	..	..	(*d*) Includes C. ft. 500, excess found on remeasurement of old stock in South Coimbatore.
259	712 8	Sold .. Sent to other depôts.	249 8	695 3 13 6	2	3 11	(*b*) Of this, No. 4, C. ft. 82, appeared as miscellaneous timber in previous year.
313	222 8	Sold	313	222 8	..	..	(*c*) Includes No. 8, C. ft. 13-6, received from other depôts.
3,599	23,109	Sold .. To other depôts. Otherwise ..	3,250 274 53	22,248 733 82	22	46	(*e*) Includes C. ft. 733 received from other depôts.
No. 175 = 1,750 C. ft.		Sold	No. 155 = 1,550 C. ft.		No. 20 = 200 C. ft.		
Tons. 326	..	.. ..	..	..	Tons. 326	..	
Tons. lb.			Tons. lb.		Tons. lb.		
3,001 2,012	..	Sold .. Sold and supplied to jail. Otherwise ..	(*h*)2,293 1,815 220 2,225¾ 59 500	.. .. ..	427 1,951¼	..	(*h*) Add 574 teak saplings sold as firewood.
No. 3,029 = 61 tons.		Sold	No. 2,993 = 60 tons.		No. 36 = 1 ton.		
Tons. lb.			Tons. lb.		Tons. lb.		
15 354	..	Sold .. To other depôts. Otherwise ..	9 420 0 149 1 0	.. .. ..	4 2,025	..	
No. 14,431 = 289 tons.		Sold .. Otherwise ..	No. 14,074 = 282 tons. ,, 357 = 7 ,,		..	..	
40	688¾	Sold .. Transferred to other depôts. Transferred to forest depôt.	2 2,091½ 1 222 0 21	.. .. ..	36 594¼	..	(*f*) Includes Ton. 1 lb. 222, received from other depôts, and lb. 18, the excess found by remeasurement of old stock in South Arcot.
69	178⅛	Sold .. Otherwise ..	68 1,735⅞ 0 678¼	.. ..	0 4	..	(*g*) Includes Ton 37 lb. 682½, which is an equivalent of 3,342½ measures of honey in South Coimbatore district.
No. 37,160 = 30¾ tons.		Sold	No. 37,160 = 30¾ tons.		..	..	

Abstract of Form No. 70.

—	Timber. Teak.	Black or rosewood.	Vengai.	Other timbers.	Total cubic feet.	Equivalent in tons.	Red-wood roots.	Total timber.	Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Total of all produce.	Remarks.
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	
Stock on 1st April 1887	•16,289 / *a* 31,739	4,215	88	8,548 / *b* 1,750	62,629	1,566	15	1,581	432 / *c* 56	*d* 156	12	1	2,238	*a* Estimate of saplings. *b* Do. of No. 175. *c* Do. of ,, 2,775. *d* Do. of ,, 7,780. *e* Do. of ,, 8,505, saplings *f* Excess found on re-weighing *g* Collection of previous year included in the present returns. *h* Estimate of No. 254 *i* Do. of ,, 6,646, bamboos. *k* Estimate of No 37,150. *l* Do. of saplings. *m* Do. of No. 16,659. *n* Do. of 155. *o* Do. of 20 *p* Do. of 2,993. *q* Do. of 36. *r* Do. of No. 14,074. *s* Do. of ,, 357. *t* Do. of ,, 37,160.
Received from Forests	33,093 / *e* 10,206	609 / *f* 500	611	14,050	59,069	1,476	311	1,787	2,568 / *g* 1 / *h* 5	15 / *i* 133 / ..	27	68 / *k* 31	4,635	
Received from other sale depôts.	20,330	..	13	733	21,076	527	..	527	..	..	1	..	528	
Total ..	1,11,657	5,324	712	25,081	142,774	3,569	326	3,895	3,062	304	40	100	7,401	
Sold from depôts ..	13,825 / *l* 26,242	5,287	695	22,470 / *n* 1,550	70,069	1,752	..	1,752	2,514 / *p* 60	9 / *r* 282	3	69 / *t* 31	4,720	
Otherwise disposed of ..	3,478	37	..	82	3,597	89	..	89	59	1 / *s* 7	..	..	156	
Removed to other sale depôts.	20,330	..	13	733	21,076	527	..	527	..	..	1	..	528	
Total ..	63,875	5,324	708	24,835	94,742	2,368	..	2,368	2,633	299	4	100	5,404	
Balance stock in depôts on 31st March 1888.	52,079 / *m* 15,703	..	4	46 / *o* 200	48,032	1,201	326	1,527	428 / *q* 1	5	36	..	1,997	

Annual Form No. 71.

Forest Department, Madras, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.	TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.			
Chingleput	..	Kambakam hills.	I (*b*).	Fuel	7 0	..	1 8 0	10 8 0	10 8 0	..	..	
	..		Do.	Stumps	1 1,120	..	1 8 0	1 8 0	1 8 0	..	..	
	..	Maiyur plantation.	Do.	Casuarina	17 300	..	3 0 3	51 10 9	51 10 9	..	..	
	..	Madras	Do.	Firewood	199 2,239	..	At different rates.	513 11 6	513 11 6	..	..	
				Billets	13 0	..						
				Charcoal	13 276	..	Do. ..	280 13 4	280 13 4	..	..	
				Total of (*b*) ..	251 1,695	..	..	858 3 7	858 3 7	..	..	
				Sold locally.								
North Arcot.	..	Bolampatti tope ..	I (*a*).	Casuarina trees ..	No. 10	..	3 0 0	30 0 0	30 0 0	..	..	
	..	Elattur	Do.	Do. ..	,, 10	..	2 0 0	20 0 0	20 0 0	..	..	
	..	Do.	Do.	Do. ..	,, 5	..	3 0 0	15 0 0	15 0 0	..	..	
	..	Pudupalaiyam ..	Do.	Palmyra trees ..	,, 6	..	2 0 0	12 0 0	12 0 0	..	..	
				Total ..	..	..	..	77 0 0	77 0 0	..	..	
				Outstandings realised.	..	..	..	..	750 0 0	..	..	
				Total ..	..	..	..	..	827 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.	TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.			
North Arcot—*cont.*	..	Vellore Central Jail.	I (*b*).	Babul and casuarina wood.	220 2,225¾	..	3 4 0 per 1,000 lb.	1,608 12 7	1,498 5 11	..	..	
				Sold locally.								
	..	Tiruvallam plantation.	Do.	Casuarina wood ..	1,266 1,120	..	At different rates.	6,244 14 0	5,771 6 0	..	..	
			Do.	Casuarina trees ..	No. 70	..	1 8 0 per ton.	105 0 0	105 0 0	..	..	
	..		Do.	Do. ..	,, 46	..	2 2 0 per ton.	97 12 0	97 12 0	..	..	
			Do.	Casuarina wood ..	Ton 1	..	5 8 0 per ton.	5 8 0	5 8 0	..	..	
			Do.	Casuarina branch wood.	..	lb. 1,120	2 8 0 per ton.	1 4 0	1 4 0	..	..	
	..	Virinjipuram plantation.	Do.	Do. ..	,, 1	..	3 0 0 per ton.	3 0 0	3 0 0	..	..	
			Do.	Casuarina trees ..	No. 10	..	2 0 0 each.	20 0 0	20 0 0	..	..	
			Do.	Casuarina wood ..	..	lb. 1,120	2 0 0 per ton.	1 0 0	1 0 0	..	..	
	..	Kilminnel plantation.	Do.	Casuarina branch wood.	Tons 3	..	2 0 0 per ton.	6 0 0	6 0 0	..	..	
			Do.	Do. ..	,, 17	..	2 8 0 per ton.	42 8 0	42 8 0	..	..	
	..	Gazulamandiyam plantation.	Do.	Casuarina trees ..	No. 20	..	2 6 0 per ton.	47 8 0	47 8 0	..	..	
			Do.	Casuarina branch wood.	Tons 3	..	Highest bid.	12 8 6	12 8 6	..	..	
	..	Balampet tope ..	Do.	Casuarina trees ..	No. 8	..	2 0 0 per ton.	16 0 0	16 0 0	..	..	
			Do.	Do. ..	,, 15	..	3 0 0 per ton.	45 0 0	45 0 0	..	..	
			Do.	Do. ..	,, 6	..	1 0 0 per ton.	6 0 0	6 0 0	..	..	
				Total ..	..	..	..	8,262 11 1	7,678 12 5	..	..	
				Outstandings realised.	..	..	..	..	2,656 10 0	..	..	
					Tons 1513 and No. 176	1,105¾	..	..	10,335 6 5	..	..	
	..	..	I (*c*).	Bamboos	No. 500	..	0 1 6 each.	46 14 0	46 14 0	..	..	
				Total of the district.	..	..	..	8,386 9 1	11,209 4 5	..	..	
				Sold from depot.		C FT.						
South Arcot.	..	Tiruvannámalai.	I (*a*).	Acha log	No. 1	14 0	1 2 0	15 12 0	15 12 0	No. 1	..	
			Do.	Do.	,, 1	5 1	0 15 0	4 12 3	4 12 3	,, 1	..	
			Do.	Mango log	,, 1	7 5	0 12 0	5 9 0	5 9 0	,, 1	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks
				Sold from depot—cont.	NO.	C. FT.	RS. A. P.	RS A. P.	RS. A. P.	NO.		
			I (*a*).	Mango log	4	54 3	0 8 0	27 2 0	27 2 0	4	..	
			Do.	Do. ..	2	14 4	0 4 0	3 9 4	3 9 4	2	..	
			Do.	Vengai poles ..	40	100 3	1 2 0	112 12 6	112 12 6	40	..	
			Do.	Do. ..	5	24 4	1 0 0	24 5 4	24 5 4	5	..	
			Do.	Do. ..	166	247 11	0 15 0	232 6 9	232 6 9	166	..	
			Do.	Do. ..	3	4 5	0 13 0	3 9 5	3 9 5	3	..	
			Do.	Do. ..	14	25 10	Highest bid.	22 7 0	22 7 0	14	..	
			Do.	Miscellaneous timber poles.	1	2 3	1 2 0	2 8 6	2 8 6	1	..	
	..	Tiruvannámalai —*cont.*	Do.	Do. ..	9	33 6	1 0 0	33 8 0	33 8 0	9	..	
			Do.	Do. ..	16	20 11	0 15 0	19 9 9	19 9 9	16	..	
			Do.	Do. ..	13	19 9	0 14 0	17 4 6	17 4 6	13	..	
			Do.	Do. ..	31	43 11	0 13 0	35 10 11	35 10 11	31	..	
			Do.	Do. ..	164	272 11	0 12 0	204 11 0	204 11 0	164	..	
			Do.	Do. ..	35	47 4	0 11 0	32 8 8	32 8 8	35	..	
			Do.	Do. ..	299	661 8	0 10 0	413 8 8	413 8 8	299	..	
			Do.	Do. ..	1	1 0	0 9 6	0 9 6	0 9 6	1	..	
			Do.	Do. ..	166	368 9	0 8 0	184 6 0	184 6 0	166	..	
			Do.	Do. ..	1	3 9	0 7 2	1 10 11	1 10 11	1	..	
			Do.	Do. ..	1	1 1	0 4 7	0 4 11	0 4 11	1	..	
South Arcot—*cont.*			Do.	Do. ..	66	132 5	Highest bid.	70 0 5	70 0 5	66	..	
			Do.	Acha log	1	9 11	1 2 0	11 2 6	11 2 6	1	..	
			Do.	Vengai poles ..	2	7 6	1 2 0	8 7 0	8 7 0	2	..	
			Do.	Do. ..	6	6 0	1 0 0	6 0 0	6 0 0	6	..	
			Do.	Mango wood ..	5	54 3	Highest bid.	28 7 0	28 7 0	5	..	
			Do.	Miscellaneous timber poles.	1	3 3	1 1 0	3 7 3	3 7 3	1	..	
			Do.	Do. ..	7	24 8	1 0 0	24 10 8	24 10 8	7	..	
			Do.	Do. ..	35	54 10	0 15 0	51 6 6	51 6 6	35	..	
			Do.	Do. ..	30	43 9	0 14 0	38 4 6	38 4 6	30	..	
			Do.	Do. ..	39	122 11	0 13 0	99 13 11	99 13 11	39	..	
			Do.	Do. ..	22	64 1	0 11 0	44 0 11	44 0 11	22	..	
	Chidambaram.	Tindivanam ..	Do.	Do. ..	134	355 0	Highest bid.	230 6 8	230 6 8	134	..	
			Do.	Kandan poles ..	25	34 8	0 3 0	6 8 0	6 8 0	25	..	
				Sold locally.								
			Do.	Vengai poles ..	2	1 0	0 15 0	0 15 0	0 15 0	2	..	
			Do.	Do. ..	4	9 8	0 13 0	7 13 8	7 13 8	4	..	
			Do.	Miscellaneous timber poles.	377	541 1	0 8 0	270 8 8	270 8 8	377	..	
			Do.	Do. ..	2	95 10	0 6 0	35 15 0	35 15 0	2	..	
			Do.	Nona poles	3	..	Highest bid.	3 8 0	3 8 0	3	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c. removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally—cont.	NO.	C. FT.	RS. A. P.	RS. A. P.	RS. A. P.	NO.		
		Tindivanam—*cont.*	I (*a*).	Casuarina poles ..	70	454 4	0 10 0	283 15 4	283 15 4	70	..	
			Do.	Do. ..	55	168 8	0 8 0	84 5 4	71 15 4	55	..	
			Do.	Do. ..	1,244	1,752 1	0 4 0	438 0 4	438 0 4	244	..	
			Do.	Do. ..	146	89 7	0 3 0	16 12 9	16 12 9	141	..	
			Do.	Do. ..	100	150 0	0 6 0 per pole.	37 8 0	37 8 0	100	..	
				Transport charge ..	..	..	..	45 15 0	45 15 0	..	..	
				Total of I (*a*) ..	..	..	..	3,246 11 4	3,234 5 4	..	..	
				Sold from depot.	TONS. LB.					TONS. LB.		
	Chidambaram—*cont.*		I (*b*).	Dead firewood ..	0 1,120	..	2 6 0	1 3 0	1 3 0	0 1,120	..	
			Do.	Kandan, &c., firewood.	3 560	..	6 12 0	21 15 0	21 15 0	3 560	..	
			Do.	Do. ..	4 2,128	..	6 8 3	32 4 0	32 4 0	4 2,128	..	
			Do.	Do. ..	1 784	..	6 4 0	8 7 0	8 7 0	1 784	..	
			Do.	Do. ..	6 0	..	5 10 0	33 12 0	33 12 0	6 0	..	
			Do.	Do. ..	15 1,018	..	5 8 0	85 0 0	85 0 0	15 1,018	..	
			Do.	Do. ..	34 1,400	..	4 8 0	155 13 0	155 13 0	34 1,400	..	
			Do.	Do. ..	263 308	..	4 7 5	1,174 8 5	1,174 8 5	263 308	..	
		Tiruvannámalai	Do.	Do. ..	1 0	..	4 0 0	4 0 0	4 0 0	1 0	..	
			Do.	Do. ..	229 1,755	..	5 0 0	1,148 14 9	1,148 14 9	229 1,755	..	
			Do.	Do. ..	5 860	..	3 0 0	16 2 0	16 2 0	5 860	..	
			Do.	Do. ..	0 224	..	2 8 0	0 4 0	0 4 0	0 224	..	
			Do.	Do. ..	38 2,063	..	3 9 0	138 10 6	138 10 6	38 2,063	..	
			Do.	Do. ..	15 93	..	1 8 0	22 9 0	22 9 0	15 93	..	
South Arcot—*cont.*			Do.	Do. ..	3 1,120	..	2 0 0	7 0 0	7 0 0	3 1,120	..	
			Do.	Do. ..	0 224	..	1 4 0	0 2 0	0 2 0	0 224	..	
			Do.	Babul firewood ..	0 1,120	..	5 0 0	2 8 0	2 8 0	0 1,120	..	
				Sold locally.								
			Do.	Babul firewood ..	804 640	..	5 8 0	4,423 9 3	3,307 13 10	804 640	..	
			Do.	Do. ..	1 1,120	..	5 0 0	7 8 0	7 8 0	1 1,120	..	
	No. III Range.	Villupuram taluk forests.	Do.	Do. ..	39 560	..	4 0 0	157 0 0	157 0 0	39 560	..	
			Do.	Do. ..	35 640	..	4 8 0	158 12 6	158 12 6	35 640	..	
			Do.	Do. ..	48 1,512	..	Highest bid.	91 0 9	91 0 9	49 280	..	
			Do.	Casuarina, &c., firewood.	2 448	..	5 10 0	12 6 0	12 6 0	2 448	..	
			Do.	Do. ..	55 0	..	5 2 0	281 14 0	281 14 0	55 0	..	
			Do.	Do. ..	3 1,872	..	6 0 0	23 0 3	23 0 3	3 1,872	..	
			Do.	Do. ..	90 1,162	..	5 0 0	452 9 6	451 5 6	90 1,162	..	
	No. IV Range.	Cuddalore ..	Do.	Do. ..	485 934	..	4 8 0	2,184 6 0	2,184 6 0	485 934	..	
			Do.	Do. ..	0 1,680	..	4 0 0	3 0 0	3 0 0	0 1,680	..	
			Do.	Do. ..	46 1,120	..	2 8 0	116 4 0	116 4 0	46 1,120	..	
			Do.	Do. ..	20 1,120	..	1 4 0	25 1 0	25 1 0	20 1,120	..	
			Do.	Do. ..	13 1,120	..	1 14 0	25 5 0	25 5 0	13 1,120	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
					TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.	TONS. LB.		
South Arcot—*cont.*	IV Range—*cont.*	Cuddalore—*cont.*	I (*b*)	Casuarina,&c.,firewood	4 560	..	3 4 0	13 13 0	13 13 0	4 560	..	
			Do.	Do. ..	20 1,792	..	0 5 0	6 8 0	6 8 0	20 1,792	..	
			Do.	Do. ..	2 0	..	1 12 0	3 8 0	3 8 0	2 0	..	
			Do.	Do. ..	6 0	..	3 2 0	18 12 0	18 12 0	6 0	..	
			Do.	Do. ..	1 336	..	0 10 0	0 11 6	0 11 6	1 336	..	
			Do.	Babul firewood ..	157 0	..	5 8 0	863 8 0	863 8 0	157 0	..	
			Do.	Do. ..	15 0	..	Highest bid.	50 0 0	50 0 0	15 0	..	
			Do.	Do. ..	0 1,848	..	5 0 0	4 2 0	4 2 0	0 1,848	..	
			Do.	Do. ..	0 1,008	..	2 8 0	1 2 0	1 2 0	0 1,008	..	
			Do.	Do. ..	0 224	..	0 10 0	0 1 0	0 1 0	0 224	..	
			Do.	Casuarin a firewood.	0 672	..	5 0 0	1 8 0	1 8 0	0 672	..	
			Do.	Do. ..	0 840	..	1 4 0	0 7 6	0 7 6	0 840	..	
		Chidambaram ..	Do.	Do. ..	11 0	..	0 5 0	3 7 0	3 7 0	11 0	..	
			Do.	Kandan firewood ..	0 2,016	..	5 0 0	4 8 0	4 8 0	0 2,016	..	
			Do.	Do. ..	3 747	..	6 0 0	20 0 0	20 0 0	3 747	..	
			Do.	Do. ..	77 1,820	..	4 0 0	311 4 0	311 4 0	77 1,820	..	
			Do.	Do. ..	12 1,624	..	2 8 0	31 13 0	31 13 0	12 1,624	..	
		VII. Vriddhá-chalam. ..	Do.	Velvelam firewood..	51 0	..	1 8 0	76 8 0	76 8 0	51 0	..	
				Total of I (*b*) ..	..	..	..	12,226 5 11	11,109 6 6	..	..	
				Sold locally.								
			I (*c*).	Bamboos	No. 5	..	0 3 0 each.	0 15 0	0 15 0	No. 5	..	
			Do.	Do.	,, 24	..	0 6 0	9 0 0	9 0 0	,, 24	..	
		II. Tindivanam. ..	Do.	Do.	,, 2	..	0 6 6	0 13 0	0 13 0	,, 2	..	
			Do.	Do.	,, 5	..	0 4 0	1 4 0	1 4 0	,, 5	..	
			Do.	Do.	lb. 112	..	2 8 0 per ton.	0 2 0	0 2 0	lb. 112	..	
				Total of I (*c*) ..	..	..	..	12 2 0	12 2 0	..	..	
				Sold from depot.	TONS. LB.					TONS. LB.		
			I (*d*).	Sandalwood billets..	0 270	..	400 0 0 per ton.	48 3 5	48 3 5	0 270	..	
			Do.	Do. ..	0 386½	..	280 0 0	48 5 0	48 5 0	0 386½	..	
		I. Trinomalai.. ..		*Sold locally.*								
			Do.	Sandalwood ..	0 21	..	0 2 10⅔ per lb.	3 12 0	3 12 0	0 21	..	
			Do.	Do. roots ..	0 14	..	0 1 5⅐	1 4 0	1 4 0	0 14	..	
				Total of I (*d*) ..	..	..	..	101 8 5	101 8 5	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget Sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.	TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.	TONS. LB.		
South Arcot.—*cont.*	I. Trinomalai—*cont.*	..	I (*e*).	Gallnuts	0 560	..	0 0 4½ per lb.	13 2 0	13 2 0	0 560	..	
			Do.	Honey	0 64⅜	..	0 3 0 per lb.	12 1 2	12 1 2	0 64⅜	..	
			Do.	Do.	0 20¾	..	0 2 0	2 9 6	2 9 6	0 20¾	..	
			Do.	Wax	0 5	..	0 7 0	2 3 0	2 3 0	0 5	..	
			Do.	Thatching grass ..	0 1,120	..	5 0 0	2 8 0	2 8 0	0 1,120	..	
			Do.	Do. ..	0 546	..	6 10 8	1 10 0	1 10 0	0 546	..	
	II. Tindivanam.	..	Do.	Honey	0 8	..	0 2 9	1 6 0	1 6 0	0 8	..	
	IV. Chidambaram.	..	Do.	Silk cotton pods ..	No. 8,000 TONS. LB.	..	2 0 0 per 1,000.	16 0 0	16 0 0	No. 8,000 TONS. LB.	..	
	I. Trinomalai ..	..	Do.	Gallnuts	1 1,120	..	55 0 0	82 8 0	82 8 0	1 1,120	..	
			Do.	Do.	5 686	..	52 8 0	278 9 3	278 9 3	5 686	..	
			Do.	Manipungam seed ..	6 560	..	40 13 4	255 3 4	255 3 4	6 560	..	
			Do.	Nirpungam seed ..	0 560	..	23 5 4	5 13 4	5 13 4	0 560	..	
			Do.	Do. ..	0 1,186⅔	..	35 0 0	18 8 8	18 8 8	0 1,186⅔	..	
			Do.	Tagarai seed ..	4 210	..	23 5 4	95 8 4	95 8 4	4 210	..	
			Do.	Sembaram bark ..	2 280	..	10 0 0	21 4 0	21 4 0	2 280	..	
			Do.	Honey	0 146	..	0 2 0 per lb.	18 4 0	18 4 0	0 146	..	
			Do.	Wax	0 56	..	0 7 0 per lb.	24 8 0	24 8 0	0 56	..	
	II. Tindivanam.	..	Do.	Honey	0 4	..	0 2 0 per lb.	0 8 0	0 8 0	0 4	..	
	III. Villupuram.	..	Do.	Velal grass	0 336	..	0 10 0 per ton.	0 1 6	0 1 6	0 336	..	
	IV. Cuddalore..	..	Do.	Mango fruit ..	No. 195 TONS. LB.	..	0 1 8 per 100.	0 3 3	0 3 3	No. 195 TONS. LB.	..	
	Chidambaram ..	..	Do.	Honey	0 1¼	..	0 4 0	0 5 0	0 5 0	0 1¼	..	
	Vriddháchalam.	..	Do.	Velvelam bark ..	2 0	..	18 0 0 per ton.	36 0 0	36 0 0	2 0	..	
			Do.	Do. ..	3 0	..	16 0 0	48 0 0	48 0 0	3 0	..	
				Total of I (*e*) ..	..	..	..	936 12 4	936 12 4	..	..	
				Total of district ..	..	..	..	16,523 8 0	15,394 2 7	..	..	
				Deduct excess in District Forest-officer's accounts as compared with Examiner's.	..	..	..	3 0 0	..	..	..	
				Grand Total ..	..	..	..	16,520 8 0	15,314 2 7	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved	Remarks.
				Sold from depot.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Salem ..	Pennagaram.	..	I (*a*)	Acha	19	22 4	1 4 4	28 11 5	28 11 5	19 logs.	..	
		..	Do.	Vengai	1	1 11	1 4 4	2 8 6	2 8 6	1	..	
	Denkanikóta.	..	Do.	Bilvaram	28	239 4	1 0 0	271 9 8	271 9 8	32 logs.	..	
		..	Do.	Thumbai	4	32 2						
		..	Do.	Lindigai	319	422 6						
		..	Do.	Nagai	230	207 7	0 12 0	525 7 9	525 7 9	649	..	
		..	Do.	Puluvai	99	69 0						
		..	Do.	Manjakadambai ..	1	1 0						
		..	Do.	Teak	1	2 7	1 0 0	2 11 2	2 11 2	1	..	
		..	Do.	Jungle-wood ..	313	222 8	0 11 0	153 0 7	153 0 7	313	..	
				Total of I (*a*) ..	..	..	..	984 1 1	984 1 1	..	..	
	..	..	I (*b*)	Firewood	Tons 12	lb. 840	0 10 0	7 11 9	7 11 9	12 840	..	
				Sold locally.								
	Salem	..	Do.	Firewood	57	1,680	1 6 9	82 4 0	82 4 0	57 1,680	..	
				Total of I (*b*) ..	..	..	..	89 15 9	89 15 9	..	..	
				Sold from depot.								
	Denkanikóta.	..	I (*c*)	Bamboos	No. 200 (big size) 5 tons.	..	11 4 0	22 8 0	22 8 0	200	..	
		..	Do.	Do.	No. 1,000 (small) 5 tons.	..	1 8 0 per 100	15 0 0	15 0 0	1,000	..	
				Sold locally.								
		..	Do.	Bamboos	4	448	2 8 0	10 8 0	10 8 0	4 448	..	
				Total of I (*c*) ..	..	..	..	48 0 0	48 0 0	..	..	
				Sold from depot.								
	Pennagaram.	..	I (*d*)	Sandal-wood roots ..	..	lb. 56	250 0 0 a ton.	6 4 0	13 2 0	lb. 364	..	
		..	Do.	Do. chips ..	..	308	50 0 0	6 14 0				
	Denkanikóta.	..	Do.	Do. roots ..	2	574	250 0 0 a ton.	564 1 0	575 2 6	2 1,071	..	
		..	Do.	Do. chips ..	..	497	50 0 0	11 1 6				
				Total of I (*d*) ..	..	..	..	588 4 6	588 4 6	..	..	
				Total of district ..	..	..	..	1,710 5 4	1,710 5 4	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.	Tons. lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.			
Trichinopoly—	Pennagaram ..	..	I (*a*)	Timber	..	70 C. ft.	1 0 0 per 5 C. ft.	14 0 0	14 0 0	..	..	
	Kulitalai ..	..	Do.	Ficus Indica ..	No. 1	..	1 12 0	1 12 0	1 12 0	1	..	
	Manatattai ..	..	Do.	Casuarina trees ..	,, 9	..	2 0 0	18 0 0	18 0 0	9	..	
		..	Do.	Do.	,, 2	..	3 0 0	6 0 0	6 0 0	2	..	
		..	Do.	Do.	,, 1	..	1 0 0	1 0 0	1 0 0	1	..	
		..	Do.	Dalbergia sissu ..	,, 3	..	3 0 0	9 0 0	9 0 0	3	..	
	Kulitalai ..	..	Do.	Vagai tree	,, 1	..	3 0 0	3 0 0	3 0 0	1	..	
		..	Do.	Do.	,, 1	..	1 0 0	1 0 0	1 0 0	1	..	
		..	Do.	Babul tree	,, 1	..	1 0 0	1 0 0	1 0 0	1	..	
		..	Do.	Casuarina tree ..	,, 2	..	2 0 0	4 0 0	4 0 0	2	..	
				Total of I (*a*) ..	..	..	..	58 12 0	58 12 0	..	..	
				Sold from depôt.								
	Trichinopoly ..	..	I (*b*).	Firewood	Tons 304	lb. 1,792	1 14 0	571 8 0	571 8 0	..	..	
		..	Do.	Do.	,, 52	,, 896	1 9 0	81 14 0	81 14 0	..	..	
		..	Do.	Do.	,, 1	..	1 6 0	1 6 0	1 6 0	..	..	
	Tiruvadi ..	..	Do.	Do.	,, 62	,, 448	3 12 0	233 4 0	233 4 0	..	..	
		..	Do.	Do.	,, 267	,, 896	3 9 0	835 10 0	835 10 0	..	..	
		..	Do.	Do.	,, 110	,, 896	5 0 0	552 0 0	552 0 0	..	..	
	Kumbakónam.	..	Do.	Do.	,, 229	,, 448	4 6 0	1,002 12 0	1,002 12 0	..	..	
		..	Do.	Do.	,, 81	,, 448	4 1 0	329 14 0	329 14 0	..	..	
		..	Do.	Do.	,, 223	,, 1,056	3 12 0	838 0 3	838 0 3	..	..	
		..	Do.	Do.	,, 98	,, 448	3 2 0	306 14 0	306 14 0	..	..	
				Sold locally.								
	Punganúr ..	..	I (*b*).	Firewood	,, 200	..	3 12 0	750 0 0	750 0 0	..	..	
		..	Do.	Do.	,, 8	..	1 0 0	8 0 0	8 0 0	..	..	
	Elamanur ..	..	Do.	Do.	,, 167	..	4 8 0	751 8 0	751 8 0	..	..	
		..	Do.	Do.	,, 37	..	3 8 0	129 8 0	129 8 0	..	..	
		..	Do.	Do.	,, 8	..	1 4 0	10 0 0	10 0 0	..	..	
		..	Do.	Do.	,, 1	,, 1,344	0 10 0	1 0 0	1 0 0	..	..	
		..	Do.	Do.	,, 23	..	0 3 0	4 5 0	4 5 0	..	..	
	Pettuvaitalai ..	..	Do.	Do.	,, 6	..	4 8 0	27 0 0	27 0 0	..	..	
		..	Do.	Do.	,, 1	..	3 8 0	3 8 0	3 8 0	..	..	
	Kulitalai ..	..	Do.	Do.	,, 186	,, 206	4 8 0	837 6 7	837 6 7	..	..	
		..	Do.	Do.	,, 62	,, 1,704	3 8 0	219 10 7	219 10 7	..	..	
		..	Do.	Do.	,, 1	,, 448	1 9 0	1 14 0	1 14 0	..	..	
		..	Do.	Do.	,, 11	,, 448	1 6 6	15 12 0	15 12 0	..	..	
		..	Do.	Do.	,, 64	,, 2,016	1 4 0	81 2 0	81 2 0	..	..	
		..	Do.	Do.	..	,, 1,792	0 15 0	0 12 0	0 12 0	..	..	
	Lálápet	..	Do.	Do.	,, 346	,, 802	4 8 0	1,558 9 9	1,558 9 9	..	..	
		..	Do.	Do.	,, 109	,, 2,218	3 8 0	384 15 5	384 15 5	..	..	
		..	Do.	Do.	,, 36	..	0 8 0	18 0 0	18 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks
				Sold locally—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Trichinopoly—*cont.*	Sittalavai ..	..	I (*b*)	Firewood	Tons 244	lb. 1,246	4 8 0	1,100 8 0	1,100 8 0	..	..	
		..	Do.	Do.	,, 65	,, 1,141	3 8 0	229 4 5	229 4 5	..	..	
		..	Do.	Do.	,, 13	..	0 8 0	6 8 0	6 8 0	..	..	
	Kattalai ..	..	Do.	Do.	,, 113	..	4 8 0	508 8 0	508 8 0	..	..	
		..	Do.	Do.	,, 38	..	3 8 0	133 0 0	133 0 0	..	..	
		..	Do.	Do.	,, 52	..	0 8 0	26 0 0	26 0 0	..	..	
		..	Do.	Do.	,, 62	..	4 8 0	279 0 0	279 0 0	..	..	
		..	Do.	Do.	,, 31	530	3 8 0	109 5 3	109 5 6	..	..	
	Váyalúr ..	..	Do.	Do.	,, 173	,, 1,991	4 8 0	782 8 0	782 8 0	..	..	
		..	Do.	Do.	,, 79	,, 2,205	3 8 0	279 15 1	279 15 1	..	..	
		..	Do.	Do.	,, 5	,, 896	1 6 6	7 9 6	7 9 6	..	..	
		..	Do.	Do.	,, 181	,, 1,120	1 4 0	226 14 0	226 14 0	..	..	
	Ambásamudram.	..	Do.	Do.	,, 305	,, 717	4 8 0	1,373 15 0	1,373 15 0	..	..	
		..	Do.	Do.	,, 113	,, 1,695	3 8 0	398 2 4	398 2 4	..	..	
	Kattuvai ..	..	Do.	Do.	..	472	3 8 0	0 11 9	0 11 9	..	..	
	Kolamanickam	..	Do.	Casuarina poles ..	No. 10	..	0 4 0	2 8 0	2 8 0	..	..	
		..	Do.	Do. ..	,, 2	..	0 8 0	1 0 0	1 0 0	..	..	
	Adamur ..	..	Do.	Charcoal	Ton. 1	,, 224	15 0 0	16 8 0	16 8 0	..	..	
				Total of I (*b*) ..	..	..	..	15,037 14 11	15,037 15 2	..	..	
	Manatattai ..	..	I (*c*)	Bamboos	No. 33	..	6 per rupee.	5 8 0	5 8 0	..	..	
		..	Do.	Do.	,, 4	..	4 ,,	1 0 0	1 0 0	..	..	
				Total of I (*c*) ..	..	..	..	6 8 0	6 8 0	..	..	
				Total of district ..	..	..	..	15,103 2 11	15,103 3 2	..	..	
				Sold locally.								
Tanjore ..	..	Vettangudi forests.	I (*b*)	Firewood	19	1,120	1 8 0	30 0 0	30 0 0	19 1120	..	
	..	..	Do.	Do.	92	..	3 4 3	303 0 0	303 0 0	92 0	..	
				Total of I (*b*) ..	..	..	..	333 0 0	333 0 0	..	..	
				Sold locally.								
North Coimbatore.	Kollegál ,,	..	I (*a*)	Blackwood	2 pieces.	..	..	4 12 1	4 12 1	2 pieces.	..	
				Total of I (*a*) ..	..	..	..	4 12 1	4 12 1	..	..	
				Sold from depot.								
South Coimbatore.	..	Coimbatore depôt.	I (*a*)	Teak (1st class) ..	Logs. 31	1,398 8 7	2 0 0	2,797 7 1	2,797 7 1	31	..	
	..	..	Do.	Do. (2nd do.) ..	,, 55	2,032 8 5	1 12 0	3,557 4 2	3,557 4 2	55	..	
	..	..	Do.	Do. (3rd do.) ..	,, 126	5,207 4 10	1 8 0	7,811 1 8	7,811 1 8	126	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Coimbatore —*cont.*	Kollegál—*cont.*	Coimbatore depôt —*cont.*	I (*a*)	Teak (4th class) ..	Logs. 18	656 4 11	1 4 0	820 8 4	820 8 4	18	..	
			Do.	*Do.* do. ..	,, 3	115 0 0	0 10 0	71 14 0	71 14 0	3	..	
			Do.	Rosewood	,, 6	163 6 0	0 9 0	91 15 7	91 15 7	6	..	
			Do.	Teak rafters ..	,, 24	235 3 9	1 8 0	352 15 6	352 15 6	24	..	
			Do.	Do.	,, 1	10 3 3	1 4 0	12 8 5	12 8 5	1	..	
		Animalai depôt.	Do.	Rosewood	,, 1,144	2,638 11 4	..	772 14 0	772 14 0	144	..	
			Do.	Do.	,, 1	20 5 3	9-2-11 per candy	15 0 2	15 0 2	1	..	
			Do.	Do.	,, 16	207 9 10	9 0 0	149 10 1	149 10 1	16	..	
			Do.	Teak logs	,, 13	149 2 6	0 4 6	41 15 6	41 15 6	13	..	
			Do.	Do.	,, 90	1,277 8 2	9 0 0	919 14 11	919 14 11	90	..	
			Do.	Do.	,, 12	265 5 1	12 0 0	254 12 11	254 12 11	12	..	
			Do.	Vengai ..	,, 1	18 1 0	0 4 6	5 1 4	5 1 4	1	..	
		Polláchi depôt.	Do.	Teak rafters ..	,, 40	489 4 5	1 4 0	611 11 9	611 11 9	40	..	
			Do.	Do.	,, 23	305 0 1	1 0 0	305 0 0	305 0 0	23	..	
			Do.	Miscellaneous logs.	,, 85	2,314 2 11	..	1,429 13 0	1,429 13 0	85	..	
			Do.	Rosewood .. .	,, 2	22 9 0	1 0 0	22 12 0	22 12 0	2	..	
			Do.	Do.	,, 3	48 3 1	10 0 0	38 9 9	38 9 9	3	..	
		Vellarugu depôt.	Do.	Teak logs	,, 1	30 8 2	1 8 0	46 0 2	46 0 2	1	..	
			Do.	Do.	,, 2	87 0 10	1 9 0	136 0 9	136 0 9	2	..	
			Do.	Do.	,, 1	42 3 0	1 5 0	55 7 3	55 7 3	1	..	
			Do.	Teak rafters ..	,, 13	173 11 6	1 0 0	173 15 4	173 15 4	13	..	
			Do.	Miscellaneous logs ..	,, 61	1,623 10 11	6 4 0	811 15 3	811 15 3	61	..	
			Do.	Do. ..	,, 2	25 2 10	9 0 0	18 2 8	18 2 8	2	..	
				Total of I (*a*) ..	..	..	..	21,324 7 7	21,324 7 7	..	..	
				Sold from depot.								
		Coimbatore depôt.	I (*e*)	Dammer	..	lb. 1,673⅔	..	80 5 8	80 5 8	1,673⅓ lb.	..	
			Do.	Wax	Ton 1	,, 1,135	..	1,593 14 1	1,593 14 1	1 1,135	..	
			Do.	Honey	..	Measrs. 3,109	..	670 4 11	670 4 11	3,109 Msrs.	..	
			Do.	Canes (1st, 2nd and 3rd sort.)	No. 25,135	..	..	588 2 11	588 2 11	No. 25,135	..	
			Do.	Cardamoms ..	..	lb. 1,425	..	996 10 4	996 10 4	1,425 lb.	..	
			Do.	Dammer (1st and 2nd sort.)	3	,, 1,273¾	..	680 3 1	680 3 1	3 1,273¾	..	
		Animalai depôt.	Do.	Elephant tusk ..	..	,, 3½	..	6 6 0	6 6 0	0 3½	..	
			Do.	Other minor produce.	..	,, 1,191	..	104 12 4	104 12 4	1,191 lb.	..	
			Do.	Wax	..	,, 940	..	349 12 1	349 12 1	940 ,,	..	
			Do.	Honey	..	Measrs. 2,33⅓	..	62 7 1	62 7 1	Msrs. 233⅓	..	
			Do.	Dammer (2nd and 3rd sort).	2	288¾	..	396 4 7	396 4 7	2 288¾	..	
			Do.	Cardamoms	..	711	..	498 1 6	498 1 6	0 711	..	
			Do.	Canes (1st and 2nd sort).	No. 4,025	..	..	70 9 1	70 9 1	No. 4,025	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot—cont.				Rs. A. P.	Rs. A. P.			
South Coimbatore —*cont.*	III Range.—*cont.*	Anaimalai depôt.—*cont.*	(I) *e*	Gallnuts	1	1,907½	..	1,137 7 8	1,137 7 8	1 1907½	..	
	..	..	Do.	Other minor produce	1	2,080½	..	211 0 2	211 0 2	1 2080½	..	
				....	..	..	..	7,446 5 6	7,446 5 6	..	..	
				Add amount of sales (as per Examiner's books for which particulars have not been furnished by District Forest-officer).	..	..	..	117 10 8	117 10 8	..	..	
				Total of I (*e*) ..	..	..	..	7,564 0 2	7,564 0 2	..	..	
				Total of district..	..	..	..	28,888 7 9	28,888 7 9	..	..	
				Sold locally.	No.	C. ft.						
Madura ..	..	..	I (*a*)	Teak	..	61 09	..	58 2 6	58 2 6	61 09	..	
	..	..	Do.	Vengai	..	1,004 87	..	939 12 0	939 12 0	1004 87	..	
	..	..	Do.	Blackwood	..	394 97	..	383 8 0	383 8 0	394 97	..	
	..	..	Do.	Miscellaneous timber	3	44 53	..	40 12 0	40 12 0	44 53	..	
	No. II, Kodaikánal Range.	..	Do.	Vengai	..	624½ $\frac{27}{88}$ c. ft. 45½ sq. ft.	..	1,003 10 3	1,003 10 3	624½ $\frac{27}{88}$ c. ft. 45½ sq. ft.	..	
	..	..	Do.	Vagai and naval ..	15	241 $\frac{2}{5}$ c. ft.	..	347 3 1	347 3 1	241 $\frac{2}{5}$ c. ft.	..	
	..	..	Do.	Vengai		824 $\frac{4}{8}$ sq. ft.				824 $\frac{4}{8}$ sq. ft.		
				Amount realized on hire of Government carts for removal of timber sold to parties.	..	..	..	34 4 0	34 4 0	..	..	
				Total of I (*a*) ..	..	..	..	2,807 3 10	2,807 3 10	..	..	
				Sold from depot.	Tons.	lb.	Rs. A. P.					
	..	..	I (*b*)	Firewood	227	1,270	3 0 0 per 1,000 lb.	1,529 4 0	1,529 4 0	227 1270	..	
	..	..	..	Amount realized on sale of small twigs, &c.	..	..	..	0 12 0	0 12 0	..	..	
	..	..	..	Amount realized on hire of Government carts.	..	..	..	34 7 0	34 7 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.				Rs. A. P.	Rs. A. P.			
Madura—*cont.*	No. V, Madura range.	..	I (*b*)	Firewood	132	1,512	..	403 10 4	403 10 4	132 1,512	..	
				Total of I (*b*) ..	..	..	..	1,968 1 4	1,968 1 4			
				Total of district ..	..	..	..	4,775 5 2	4,775 5 2			
				Sold from depôt.								
	..		I (*a*)	Kongu rafters ..	2	1 0 11	..	1 0 8	1 0 8	2	..	
	..		Do.	Do. ..	36	18 8 8	..	12 0 0	12 0 0	36	..	
	..		Do.	Do. ..	110	135 1 5	..	165 10 8	165 10 8	110	..	
	..		Do.	Do. ..	5	6 0 4	..	6 15 2	6 15 2	5	..	
	..		Do.	Do. ..	132	154 0 0	..	155 6 8	155 6 8	132	..	
	..		Do.	Do. ..	5	9 3 10	..	10 11 1	10 11 1	5	..	
	..		Do.	Do. ..	33	134 7 5	..	168 4 5	168 4 5	33	..	
	..		Do.	Do. ..	1	1 10 4	..	2 5 4	2 5 4	1	..	
	..	Ambásamudram sale depôt.	Do.	Do. ..	4	2 11 1	..	2 0 0	2 0 0	4	..	
	..		Do.	Do. ..	30	28 7 0	..	28 2 0	28 2 0	30	..	
	..		Do.	Do. ..	2	12 6 0	..	8 9 6	8 9 6	2	..	
	..		Do.	Do. ..	3	18 9 6	..	18 2 8	18 2 8	3	..	
	..		Do.	Do. ..	4	10 5 0	..	9 1 8	9 1 8	4	..	
	..		Do.	Do. ..	8	19 7 1	..	20 7 3	20 7 3	8	..	
	..		Do.	Do. ..	10	17 9 1	..	24 6 8	24 6 8	10	..	
	..		Do.	Do. ..	14	9 4 0	..	14 0 0	14 0 0	14	..	
	..		Do.	Miscellaneous pieces.	155	15 0 0	..	11 1 0	11 1 0	155	..	
Tinnevelly				*Sold locally.*								
	..		I (*a*)	Kongu rafters ..	81	92 10 3	..	99 10 2	99 10 2	81	..	
	..		Do.	Do. ..	28	23 7 0	..	38 11 8	38 11 8	28	..	
	..		Do.	Kongu double rafters.	2	5 0 0	..	6 2 8	6 2 8	2	..	
	..		Do.	Kongu rafters ..	70	41 7 6	..	31 3 6	31 3 6	70	..	
	..		Do.	Do. ..	2	2 0 0	..	1 8 0	1 8 0	2	..	
	..		Do.	Do. ..	67	90 5 0	..	113 0 4	113 0 4	67	..	
	..		Do.	Do. ..	2	3 1 7	..	4 4 11	4 4 11	2	..	
	..	Pambanar forest.	Do.	Do. ..	91	113 10 6	..	113 13 4	113 13 4	91	..	
	..		Do.	Do. ..	62	68 9 0	..	90 3 9	90 3 9	62	..	
	..		Do.	Do. ..	18	11 8 5	..	8 12 5	8 12 5	18	..	
	..		Do.	Do. ..	75	59 11 8	..	47 12 6	47 12 6	75	..	
	..		Do.	Do. ..	45	55 6 10	..	42 8 9	42 8 9	45	..	
	..		Do.	Do. ..	16	16 8 8	..	10 15 7	10 15 7	16	..	
	..		Do.	Do. ..	70	78 9 0	..	94 8 0	94 8 0	70	..	
	..		Do.	Do. ..	24	58 6 1	..	52 1 8	52 1 8	24	..	
	..		Do.	Do. ..	19	23 2 4	..	10 2 4	10 2 4	19	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.	No.		
Tinnevelly —*cont.*	..	Pambanar forest —*cont.*	I (*a*)	Kongu rafters ..	74	97 9 1	..	85 15 2	85 15 2	74	..	
			Do.	Vengai pillars ..	4	7 5 4	..	5 9 4	5 9 4	4	..	
			Do.	Shenkurni logs ..	15	21 1 7	..	27 11 9	27 11 9	15	..	
			Do.	Kongu yerkals ..	22	..	..	3 7 0	3 7 0	22	..	
			Do.	Do. rafters ..	38	47 7 7	..	52 9 5	52 9 5	38	..	
			Do.	Do. ..	1	1 11 2	..	1 12 9	1 12 9	1	..	
			Do.	Do. ..	1,831	2,211 0 7	..	2,665 12 0	2,665 12 0	1,831	..	
			Do.	Do. ..	63	79 6 10	..	92 9 4	92 9 4	63	..	
	..	Kariar forest depot.	Do.	Do. ..	16	19 2 9	..	21 4 8	21 4 8	16	..	
			Do.	Do. ..	11	26 1 0	..	24 0 0	24 0 0	11	..	
			Do.	Do. ..	73	113 2 4	..	141 7 10	141 7 10	73	..	
			Do.	Do. ..	34	39 8 7	..	52 2 0	52 2 0	34	..	
			Do.	Do. ..	15	18 3 8	..	13 11 8	13 11 8	15	..	
			Do.	Do. ..	50	62 8 8	..	56 13 6	56 13 6	50	..	
			Do.	Do. ..	25	31 6 4	..	20 11 0	20 11 0	25	..	
			Do.	Do. ..	5	25 7 4	..	28 13 0	28 13 0	5	..	
			Do.	Do. ..	7	10 3 8	..	11 9 6	11 9 6	7	..	
	..	Vallam hills ..	Do.	Miscellaneous pieces.	264	..	..	26 5 0	26 5 0	264	..	
				Total of I (*a*) ..	..	..	..	5,842 11 8	5,842 11 8	..	..	
	..	..	..	Deduct amount of sale particulars furnished per previous outstanding revenue realised during the year.	..	..	..	1,082 8 5	..	..	..	
					..	..	..	4,760 3 3	5,842 11 8	..	..	
				Sold locally.						tons. lb.		
			I (*b*)	Firewood	Tons. 80	lb. 1,120	5 0 0 per ton.	402 8 0	395 0 0	80 1,120	..	
	..	Pápanásam hills.	Do.	Do. ..	7	..	3 0 0	21 0 0	12 0 0	7 0	..	
			Do.	Charcoal ..	18	1,120	12 0 0	222 0 0	222 0 0	18 1,120	..	
			Do.	Do. ..	12	525	10 0 0	122 5 6	122 5 6	12 525	..	
				Total of I (*b*) ..	..	..	..	767 13 6	751 5 6	..	..	
				Sold from depot.								
			I (*c*)	Bamboopattai No. 150	..	280	2 8 0 per 100	3 12 0	3 12 0	150	..	
	..	..	Do.	Do. „ 180	..	336	2 4 0	4 0 10	4 0 10	180	..	
			Do.	Do. „ 50	..	93	2 0 0	1 0 0	1 0 0	50	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number of quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Tinnevelly —*cont.*	..	Kariar forest depot.	I (*c*)	Bamboo pattai No. 3,000	2	1,120	1 10 0	48 12 0	48 12 0	3,000	..	
			Do.	Do. 2,145	1	1,764	2 12 0	58 15 10	58 15 10	2,145	..	
			Do.	Do. 100	..	187	2 14 0	2 14 0	2 14 0	100	..	
				Total of I (*c*) ..	..	..	..	119 6 8	119 6 8	..	..	
				Total of district ..	..	..	..	5,647 7 5	6,713 7 10	..	..	
				Sold locally.		c. ft.						
North Malabar.	..	Chedlet and Begur.	I (*a*)	Teak logs	..	38,296	..	17,842 8 6	17,842 8 6	..	..	
			Do.	Blackwood	..	13,709	..	3,996 12 0	3,996 12 0	..	..	
	..	Begur and Periya.	Do.	Miscellaneous ..	..	663	..	128 4 0	128 4 0	..	..	
				Total of I (*a*) ..	..	..	..	21,967 8 6	21,967 8 6	..	..	
			I (*e*)	Honey	..	lb. 120	0 3 0 per lb.	22 8 0	22 8 0	..	..	
	..	Manantoddy ..	Do.	Bees wax	..	,, 92	15 0 0 per 32 lb.	43 4 0	43 4 0	..	..	
				Total of I (*e*) ..	..	..	..	65 12 0	65 12 0	..	..	
				Total of district ..	..	..	..	22,033 4 6	22,033 4 6	..	..	
				Sold from depot.			Rs.					
South Malabar.	Nilambúr ..	Panangod forest depot.	I (*a*)	Teak	196	1,338	9 per 13 c.ft.	926 4 11	926 4 11	..	..	
		Pakod forest depot.	Do.	Blackwood	111	1,496	10 do.	1,150 12 4	1,150 12 4	..	..	
			Do.	Miscellaneous logs ..	504	6,928	..	1,457 13 7	1,316 5 3	..	..	
			Do.	Do. poles ..	104	302	..	135 2 0	135 2 0	..	..	
		Kallai sale depot.	Do.	Teak saplings ..	43,816	25,937	..	32,367 5 4	32,367 5 4	..	..	
				Sold locally.								
	Pálghat ..	Wálayár reserve..	I (*a*)	Teak pieces ..	..	..	..	6 6 6	6 6 6	..	..	
		Chenat Nair do.	Do.	Blackwood ..	3	41¾	6 per 12½ c.ft.	20 0 8	20 0 8	..	..	
			Do.	Miscellaneous timber.	299	11,692¼	..	4,795 10 6	4,795 10 6	..	..	
				Outstanding of previous year realized.	..	..	..	..	74 7 0	..	..	
				Total of I (*a*) ..	..	..	..	40,859 7 10	40,792 6 6	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold from depot.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Malabar.	..	Kallai depot ..	I (*b*)	Firewood	No. 3,567	..	..	342 10 6	342 10 6	..	..	
			I (*c*)	Bamboos	14,074	..	..	809 4 3	548 4 3	..	3,900	
				Sold locally.								
	..	..	I (*c*)	Bamboos	340	..	..	24 1 0	24 1 0	..	..	
	Nilambúr.			Total of I (*c*) ..	..	..	..	833 5 3	572 5 3	..	..	
				Deduct under amount of sales the excess in District Forest-officer's accounts as compared with the Examiner's.	..	..	..	214 8 0	..	..	..	
				Total ..	..	..	..	618 13 3	572 5 3	..	..	
		..	I (*e*)	Sapan dyewood ..	9¾ Candies.	..	3 8 0 per candy.	34 2 0	34 2 0	..	..	
				Total of district ..	..	..	..	41,855 1 7	41,741 8 3	..	..	
				Sold from depot.								
			I (*a*)	Rosewood logs ..	40	689 7	10 7 3 per 12¾ C. ft.	565 6 2	565 6 2	..	38	
	..	Mangalore depot	Do.	Vengai logs ..	11	259 1	9 3 3	187 0 5	187 0 5	..	11	
			Do.	Miscellaneous logs..	284	7,014 0	9 2 6	*4,872 3 2	4,872 3 2	..	119	
				Sold locally.								
			I (*a*)	Rosewood logs ..	96	1,261 7	11 0 10	1,093 11 9	1,093 11 9	96	..	
			Do.	Vengai	1	43 0	7 10 7	26 15 8	26 15 8	1	..	
	Condapoor ..	..	Do.	Miscellaneous ..	364	10,948 5	6 13 3	†5,815 14 1	5,815 14 1	364	..	
			Do.	Teak poles ..	150	..	..	8 8 0	8 8 0	150	..	
South Canara.				Total ..	..	..	..	12,569 11 3	12,569 11 3	..	..	
				Outstandings realized.	..	..	..	..	115 0 0	..	..	
				Total of I (*a*) ..	..	..	..	12,569 11 3	12,684 11 3	..	..	
					Tons.	lb.				Tons. lb.		
	..	..	I (*b*)	Charcoal	..	728	..	9 0 0	9 0 0	0 728	..	
	..	Chinkramale ..	Do.	Firewood	200	..	..	170 0 0	170 0 0	200 0	..	
	..	Mulki	Do.	Banyan branches ..	..	..	..	2 6 0	2 6 0	..	..	
	..	Ullal Casuarina and Honne plantations.	Do.	Casuarina logs 83 .. Do. poles 113.	56	1,661	..	125 0 0	125 0 0	..	..	
			Do.	Do. twigs ..	8	980	..	22 0 0	22 0 0	..	..	
			Do.	Do. roots ..	8	1,969	..	42 1 0	42 1 0	..	..	
			Do.	Do. branches..	13	848	..	45 0 0	45 0 0	..	..	

Rs. A. P.
† Gross amount .. 6,964 14 1
Deduct discount .. 49 0 0
Balance .. 6,915 14 1

Rs. A. P.
* Gross amount .. 6,035 11 2
Deduct discount.. 163 8 0
[Balance .. 4,872 3 2

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally—cont.	TONS.	LB.	RS. A. P.	RS. A. P.	RS. A. P.			
South Canara—*cont.*	..	Ullal Casuarin and Honne plantations —*cont.*	I (*b*)	Casuarina billets, stumps and slabs.	69	112	..	427 0 0	427 0 0	..	..	
				Total of I (*b*) ..	..	..	..	842 7 0	842 7 0	..	..	
	..	Condapur Range.	I (*c*).	Myrabolams ..	69	798	0 6 0 per 28 lb.	2,092 4 8	2,092 4 8	..	..	
			Do.	Shegi pods	29	2,174	0 14 10	2,227 6 6	2,227 6 6	..	..	
			Do.	Pepper	..	1,374	9 0 0	441 1 6	441 1 6	..	..	
			Do.	Nux vomica ..	..	28	0 8 0	0 8 0	0 8 0	..	..	
			Do.	Wax, 1st sort ..	..	184	18 0 7	118 8 6	118 8 6	..	..	
			Do.	Do. 2nd ,, ..	..	174	12 4 1	76 2 9	76 2 9	..	..	
			Do.	Honey	..	129	3 12 0	17 3 11	17 3 11	..	..	
			Do.	Deer horns	..	598½	4 6 3	93 13 0	93 13 0	..	..	
			Do.	Wild mace	..	105	4 12 10	20 12 5	20 12 5	..	..	
			Do.	Do. nutmeg ..	..	1,428	1 2 10	60 1 7	60 1 7	..	..	
			Do.	Cinnamon flower ..	..	1,496½	3 13 4	204 15 8	204 15 8	..	..	
			Do.	Bark of Terminalia Tomentosa.	1	336	0 3 4	19 2 6	19 2 6	..	..	
			Do.	Catechu	21	560	7 9 7	12,920 0 0	12,920 0 0	..	..	
			Do.	Myrabolams ..	3	6	0 8 1	122 3 3	122 3 3	..	..	
			Do.	Shegi pods	6	174	1 0 11	515 5 2	514 5 2	..	..	
			Do.	Pepper	..	221	9 12 9	77 5 0	77 5 0	..	..	
			Do.	Nux vomica ..	..	347½	0 8 7	6 11 7	6 11 7	..	..	
			Do.	Wax, 1st sort ..	..	11½	16 7 9	6 12 4	6 12 4	..	..	
	..	Udipi Range ..	Do.	Do. 2nd ,, ..	..	108½	13 15 9	54 3 0	54 3 0	..	..	
			Do.	Honey	..	228½	2 10 0	21 1 8	21 1 8	..	..	
			Do.	Deer horns ..	..	32	4 11 11	5 6 9	5 6 9	..	..	
			Do.	Wild mace ..	..	280½	4 9 0	45 10 10	45 10 10	..	..	
			Do.	Do. nutmeg ..	..	1,447½	1 1 5	56 4 2	56 4 2	..	..	
			Do.	Cinnamon flower ..	..	146½	3 0 6	15 14 4	15 14 4	..	..	
			Do.	Beleric Myrabolams.	1	890	0 0 3	1 11 6	1 11 6	..	..	
			Do.	Myrabolams ..	..	1,456	0 11 7	37 11 2	37 11 2	..	..	
			Do.	Shegi pods ..	29	1,173	1 0 9	2,468 6 4	2,468 6 4	..	..	
			Do.	Pepper	..	118	9 7 1	*22 4 7	22 4 7	..	..	
			Do.	Nux vomica ..	4	1,406	0 14 8	340 9 8	340 9 8	..	..	
	..	Mangalore ..	Do.	Wax, 1st sort ..	..	16½	15 4 3	8 15 11	8 15 11	..	..	
			Do.	Do. 2nd ,, ..	..	9	11 2 11	3 9 6	3 9 6	..	..	
			Do.	Honey	..	87	3 11 2	11 7 11	11 7 11	..	..	
			Do.	Deer horns ..	..	143	4 10 0	23 3 8	23 3 8	..	..	
			Do.	Konde bark ..	1	1,228	0 10 0	77 6 7	77 6 7	..	..	
			Do.	Wood oil	..	133	9 0 0	42 12 0	42 12 0	..	..	

	RS. A. P.
* Full amount	39 12 9
Deduct part of security deposit credited in October 1885	17 8 2
	22 4 7

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally—cont.		LB.	RS. A. P.	RS. A. P.	RS. A. P.			
South Canara—*cont.*	..	Mangalore—*cont.*	I (*e*).	Wild mace ..	3	2,041	6 0 7	*1,837 14 3	1,837 14 3	..	..	RS. A. P.
			Do.	Do. nutmeg ..	2	155	0 15 0	155 2 7	155 2 7	..	..	1,887 14 3
			Do.	Cinnamon flower ..	2	1,832½	2 11 2	608 5 6	608 5 6	..	..	Deduct amount of security deposit credited in October 1885. 50 0 0
			Do.	Doop	Measures 8	..	..	0 2 0	0 2 0	..	..	1,837 14 3
			Do.	Fruits of Calophyllum Inophyllum.	..	221	0 6 5	3 2 8	3 2 8	..	..	
			Do.	Myrabolams ..	..	1,991	0 11 1	48 15 6	48 15 6	..	..	
			Do.	Shegi pods	33	1,758	0 14 6	2,454 5 3	2,454 5 3	..	..	
			Do.	Pepper	..	120½	10 2 0	43 9 4	43 9 4	..	..	
			Do.	Nux vomica ..	..	105	0 6 8	1 9 0	1 9 0	..	..	
			Do.	Wax, 1st sort ..	..	2½	13 10 5	1 3 6	1 3 6	..	..	
	..	Uppinangadi ..	Do.	Do. 2nd ,, ..	..	20	10 6 7	7 7 0	7 7 0	..	..	
			Do.	Deer horns ..	..	22	4 9 9	3 10 0	3 10 0	..	..	
			Do.	Wood oil	..	56	10 0 0	20 0 0	20 0 0	..	..	
			Do.	Wild mace ..	..	692	5 3 4	128 13 2	128 13 2	..	..	
			Do.	Do. nutmeg ..	3	1,252	0 12 11	229 10 1	229 10 1	..	..	
			Do.	Cinnamon flowers ..	..	9	2 8 5	0 13 0	0 13 0	..	..	
			Do.	Doop	Measures. 89½	..	2 14 11	9 6 0	9 6 0	..	..	
			Do.	Shegi pods	..	63	1 3 7	2 12 0	2 12 0	..	..	
	..	Kásaragód ..	Do.	Wax, 1st sort ..	..	22½	16 14 0	13 9 0	13 9 0	..	..	
			Do.	Honey	..	70	3 2 11	7 15 3	7 15 3	..	..	
			Do.	Deer horns	..	22	4 9 9	3 10 0	3 10 0	..	..	
				Total of I (*e*) ..	..	..	..	27,838 1 0	27,838 1 0	..	..	
				Total of district ..	..	..	..	41,250 3 3	41,365 3 3	..	..	
				Grand Total ..	..	..	..	1,87,369 6 8	1,90,130 3 11	..	..	

* Full amount .. .. ..

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Tons.	Rate.	Sold from depôt.	Sold from forest.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
							Rs. A. P.	Rs. A. P.	Rs. A. P.			
..	..	..	I (*a*).	..	..	3,992	..	66,650 13 7	42,009 1 2	..	..	
			I (*b*).			9,758		11,533 7 1	29,195 12 6			
			I (*c*).			316		641 1 1	210 10 10			
			I (*d*).			3		684 12 11	5 0 0			
			I (*e*).			348		8,500 12 6	27,937 15 0			
				Total ..	..	14,417	..	88,010 15 2	99,358 7 6	..	..	

			Abstract of amount realized.	
				Rs. A. P.
Grand Total of sales during the year both from depot and forests ..	..	1,87,369 6 8	I (*a*).	1,10,527 15 10
Add outstandings due from previous year as per form No. 66 ..	..	4,678 9 8	I (*b*).	41,668 7 9
			I (*c*).	804 3 11
			I (*d*).	689 12 11
			I (*e*).	36,439 11 6
Total ..	..	1,92,048 0 4		1,90,130 3 11
Deduct amount realized during the year ..	..	1,90,130 3 11		..
Balance outstanding on 31st March 1888, as per form No. 66 ..	..	1,917 12 5		..

Districtwar Abstract of Form No. 71 showing Sales of Timber and other Produce both in the Depôt and the Forest during 1887-88.

District.	Timbers.						Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Total of all produce.	Remarks.
	Teak.	Black or rosewood.	Vengai.	Other timbers.	Total.	Equivalent in tons.						
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	
Chingleput	..	..	..	..	..	..	252 *k* 52	..	..	..	304	*a* Equivalent of 574 saplings sold as firewood.
North Arcot	..	..	..	*e* 310	310	8	1,513 *l* 22	*q* 10	..	..	1,553	*b* Estimate of 150 poles. *c* Do. of 2 pieces.
South Arcot	..	..	427	5,723 *f* 30 *g* 152	6,332	158	2,636 *m* —4	1	..	27 *s* 7	2,825	*d* Do. of 870 square feet. *e* Do. of No. 31. *f* Do. of ,, 3.
Salem	3	..	2	1,217	1,222	31	70	11	3	..	115	*g* Timber sold as firewood.
Trichinopoly	..	..	..	70 *h* 210	280	7	4,182 *n* 2	1	..	..	4,192	*h* Estimate of No. 21. *i* Do. of ,, 441.
Tanjore	..	..	..	..	..	..	111	..	..	..	111	*k* Difference between 65 tons of firewood and 13 tons of charcoal into which the former was converted and sold.
North Coimbatore	..	c 30	..	..	30	1	..	..	..	..	1	
South Coimbatore	12,484	3,101	18	3,953	19,556	489	..	..	..	68 *t* 24	581	*l* Estimate of No. 175.
Madura	61	395	1,628 *d* 73	286	2,443	61	360	..	..	..	421	*m* Deducted being timber sold as firewood. *n* Estimate of No. 112.
Tinnevelly	..	..	7	4,138 *i* 4,418	8,563	214	118	5	..	..	337	*o* Do. of ,, 3567.
North Malabar	38,296	13,709	..	663	52,668	1,316	..	..	..	..	1,316	*p* Deducted being timber sold as firewood. *q* Estimate of No. 500 bamboos.
South Malabar	27,275	1,538	..	18,922	48,040	1,201	*o* 94 *p* —7	*r* 288	..	2	1,578	*r* Do. of ,, 14414.
South Canara	*a* 305 *b* 17	1,951	303	17,962	20,233	506	357	..	..	220	1,083	*s* Do. of ,, 8196. *t* Do. of ,, 29160.
Total ..	78,441	20,724	2,458	58,054	159,677	3,992	9,758	316	3	348	14,417	

Annual Form No. 72-A.

Forest Department, Madras, Southern Circle.

Timber and other Produce cut, collected, and removed from the forests by consumers or purchasers, including pasture, during the year 1887-88.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Chingleput ..	Classified timber	C. ft. 79,871	6,663	6,663	II (*a*).
	Firewood	Tons 5,901 Lb. 1,500½	5,875	5,875	
	Charcoal	Tons 1	5	5	
	Palmyra	..	345	345	
	Total ..	Tons 5,902 Lb. 1,500½	6,225	6,225	II (*b*).
	Bamboos	Tons 104 Lb. 224	265	265	II (*c*).
	Grazing fees and grass	..	1,244	1,244	II (*d*).
	Leaves for manure	Tons 2,197⅜	1,033	1,033	
	Stones and earth	,, 659⅜	69	69	
	Rent on fruit trees	..	306	306	
	Do. on palmyra produce	..	741	741	
	Other minor produce	..	2,348	2,348	
	Total ..	Tons 2,857	4,497	4,497	II (*e*).
	Total of district ..	..	18,894	18,894	
North Arcot ..	Timber	C. ft. 105,405½ Trees 45	9,925	9,925	II (*a*).
	Firewood	Tons 23,052 Lb. 1,827 No. 16	22,103	22,103	
	Railway fuel	Tons 11,465¼	17,281	17,281	
	Charcoal	Tons 653 Lb. 2,212	3,272	3,272	
	Add outstandings from previous year ..	..	..	48	
	Total ..	Tons 35,172 Lb. 119 No. 16	42,656	42,704	II (*b*).
	Bamboos	Tons 6,602 Lb. 2,016	19,434	19,434	II (*c*).
	Grazing and fodder grass	..	30	30	II (*d*).
	Minor products	..	21,106	21,106	II (*e*).
	Total of district ..	..	93,151	93,199	
South Arcot ..	Classified timber	C. ft. 47,656⅝	5,922	5,922	
	Timber sold from poramboke lands	,, 6,418	652	652	
	Casuarina timber	,, 337	160	160	
	Palmyra trees	No. 857	966	966	
	Miscellaneous trees	,, 35	219	219	
	Total ..	C. ft. 54,411⅝ No. 892	7,919	7,919	
	Deduct amount of sales on account of outstandings of previous years.	..	167	..	
	Total ..	..	7,752	7,919	II (*a*).
	Firewood	Tons 11,902 Lb. 2,194	14,330	14,330	
	Miscellaneous trees	No. 9,412	33	33	
	Charcoal	Tons 54,952	301	301	
	Total ..	Tons 11,957 Lb. 916 No. 9,412	14,664	14,664	II (*b*).

Timber and other Produce out, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks
			Rs.	Rs.	
South Arcot—*cont.*	Bamboos	Tons 484, Lb. 1,400, No. 88	2,472	2,472	II (*c*).
	Grazing fees	..	2,215	2,215	
	Fodder grass	Tons 10, Lb. 616	11	11	
	Total ..	..	2,226	2,226	II (*d*).
	Barks	Tons 587, Lb. 2,119	5,357	5,357	
	Leaves	Tons 3,765, Lb. 1,632, No 57,000	2,323	2,323	
	Seeds	Tons 10	187	187	
	Fruits	,, 32	1,331	1,331	
		and leases.			
	Stones	Tons 534, Lb. 1,120	103	103	
	Tree rents	..	35,864	35,864	
	Other minor produce	Tons 303, Lb. 866	661	661	
	Total ..	Tons 5,233, Lb. 1,257, No. 57,000	45,826	45,826	II (*e*).
	Total of district ..	..	72,940	73,107	
Salem	Timber	C. ft. 173,593	17,166	17,166	II (*a*).
	Firewood	Tons 18,498, Lb. 896	12,424	12,424	
	Engine fuel	Tons 1,807, Lb. 1,120	1,808	1,808	
	Charcoal	Tons 1,906, Lb. 1,304	9,001	9,001	
	Total ..	Tons 22,212, Lb. 1,080	23,233	23,233	II (*b*).
	Bamboos	Tons 10,169, Lb. 1,904	29,069	29,069	II (*c*).
	Barks	Tons 6, Lb. 1,661½	47	47	
	Stones	Tons 12	3	3	
	Fruit trees	..	5,081	5,081	
	Tope sales	..	2,300	2,300	
	Tree rent	..	13,172	13,172	
	Minor produce contract	..	32,091	32,091	
	Other minor produce	Tons 164, Lb. 140	137	137	
	Total ..	Tons 182, Lb. 1,801½	52,831	52,831	II (*e*).
	Total of district ..	..	1,22,299	1,22,299	
Trichinopoly ..	Classified timber	C. ft. 204,016	14,083	14,077	
	Miscellaneous trees	No. 76	138	138	
	Total ..	204,092	14,221	14,215	II (*a*).
	Firewood	Tons 16,307, Lb. 419	6,455	6,404	
	Charcoal	Tons 8, Lb. 1,960	44	44	
	Total ..	Tons 10,316, Lb. 139	6,499	6,448	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Trichinopoly—*cont.*	Bamboos	Tons 1,592; Lb. 215; No. 1,449	4,253	4,253	II (*c*).
	Grass	..	5,033	5,140	II (*d*).
	Barks	Tons 16; Lb. 1,568	110	110	
	Leaves for manure	Tons 1,829; Lb. 952	1,186	1,186	
	Other minor produce	..	3,586	3,589	
	Total	Tons 1,846; Lb. 280	4,882	4,885	II (*e*).
	Total of district	..	34,888	34,941	
Tanjore	Classified timber	C. ft. 3,701	316	316	
	Palmyra, &c., trees	No. 58	169	169	
	Total	..	485	485	II (*a*).
	Firewood	Tons 4,208; Lb. 1,392	5,361	5,361	
	Charcoal	Tons 20; Lb. 2,232	105	105	
	Total	Tons 4,229; Lb. 1,384	5,466	5,466	II (*b*).
	Bamboos	Tons 30; Lb. 336	79	79	II (*c*).
	Grazing fees	..	593	593	II (*d*).
	Minor produce	..	2,196	2,188	II (*e*).
	Total of district	..	8,819	8,811	
North Coimbatore.	Timber	C. ft. 41,241	5,230	5,230	II (*a*).
	Firewood	Tons 8,685	5,869	5,869	
	Charcoal	Tons 32; Lb. 19	165	165	
	Total	Tons 8,717; Lb. 19	6,034	6,034	II (*b*).
	Bamboos	Tons 4,142¾	11,264	11,264	II (*c*).
	Grazing and fodder grass	..	29,049	29,049	II (*d*).
	Minor produce	..	4,135	4,135	
	Lease of do.	..	9,925	9,925	
	Tree rents	..	17,606	17,760	
	Total	..	31,666	31,820	II (*e*).
	Total of district	..	83,243	83,397	
South Coimbatore.	Miscellaneous timber	C. ft. 20,274	1,878	1,878	
	Do. spokes, felloes, &c.	,, 4,800; No. 961	3,005	3,005	
	Total	C. ft. 25,074; No. 961	4,883	4,883	II (*a*).
	Firewood	Tons 13,785	8,653	8,653	
	Charcoal	,, 144	722	722	
	Billet-wood, faggot-wood, &c.	..	2,050	2,050	
	Total	Tons 13,929	11,425	11,425	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.— *cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
South Coimbatore —*cont.*	Bamboos	Tons 1,494	4,967	4,967	II (*c*).
	Grazing fees	..	5,463	5,463	
	Grass	..	121	121	
	Total ..	..	5,584	5,584	II (*d*).
	Minor produce	..	14,089	14,167	II (*e*).
	Total of district ..	..	40,948	41,026	
Madura	Vengai	C. ft. 11,791	4,408	4,408	
	Blackwood	,, 100	29	29	
	Teak	,, 80	20	20	
	Junglewood	,, 315,030	12,886	12,886	
	Miscellaneous timbers	,, 1,821	340	340	
	Amount remitted by tank-bed contractors ..	..	1,417	1,417	
	Add as per Examiner's books	..	531	..	
	Total ..	C. ft. 328,822	19,631	19,100	II (*a*).
	Firewood	Tons 10,882 Lb. 266	8,736	8,736	
	Charcoal	Tons 249 Lb. 1,702	1,219	1,219	
	Total ..	Tons 11,131 Lb. 1,968	9,955	9,955	II (*b*).
	Bamboos	Tons 892 Lb. 616	2,600	2,600	II (*c*).
	Grazing fees	..	1,524	1,524	II (*d*).
	Stones	Tons 14,898 Lb. 2,202	2,089	2,089	
	Manure leaves	Tons 454 Lb. 224	296	296	
	Barks	,, 1,960	5	5	
	Tree tax	..	343	343	
	Cardamom assessment	..	3,046	3,046	
	Instalment amount of minor produce contract.	..	13,606	13,606	
	Other minor produce	Tons 323 Lb. 1,232	554	554	
	Add as per Examiner's books	..	582	..	
	Total ..	Tons 15,677 Lb. 1,138	20,521	19,939	II (*e*).
	Total of district ..	..	54,231	53,118	
Tinnevelly	Kongu	C. ft. 190	90	90	
	Vengai	,, 319	112	112	
	Miscellaneous timber	,, 7,134	2,279	2,279	
	Classified trees	,, 30,416	3,311	3,310	
	Miscellaneous trees	,, 1,498	400	400	
	Total ..	C. ft. 39,557	6,192	6,191	II (*a*).
	Firewood	Tons 10,791 Lb. 286 Tons 217	18,664	18,662	
	Charcoal	Tons 945 Lb. 1,540	5,206	5,206	
	Total ..	Tons 11,953 Lb. 1,826	23,870	23,868	II (*b*).
	Bamboos	Tons 123 Lb. 1,293	560	560	II (*c*).
	Grazing fees	..	596	596	
	Outstandings of previous year realized ..	..	..	13	
	Total ..	..	596	609	II (*d*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks
			Rs.	Rs.	
Tinnevelly—*cont.*	Minor produce	..	17,696	17,617	II (*e*).
	Total of district ..	..	48,914	48,845	
North Malabar ..	Teak pieces	C. ft. 666⅔	166	166	
	Miscellaneous trees	No. 27	139	139	
	Advance for timber	..	500	500	
	Total ..	C. ft. 666⅔ / No. 27	805	805	II (*a*).
	Bamboos	No. 16,361	247	247	II (*c*).
	Amount of minor produce contract	..	4,441	4,441	II (*e*).
	Total of district ..	..	5,493	5,493	
South Malabar ..	Teak	C. ft. 509	623	623	
	Miscellaneous timber	,, 7,000	1,792	1,792	
	Teak poles and scantlings	No. 8,774	932	932	
	Miscellaneous poles	,, 406	203	203	
	Total ..	C. ft. 7,509 / No. 9,180	3,550	3,550	II (*a*).
	Firewood	Tons 5,493	2,642	2,642	
	Charcoal	,, 36	90	90	
	Total ..	Tons 5,529	2,732	2,732	II (*b*).
	Bamboos	Tons 11 / Lb. 616 / No. 15,658	755	464	II (*c*).
	Grass	..	27	27	II (*d*).
	Minor forest produce	..	359	359	II (*e*).
	Total of district ..	..	7,423	7,132	
South Canara ..	Reserved and unreserved timber	C. ft. 111½	44	44	
	Do. classified and other trees	No. 631	2,604	2,604	
	Add as per Examiner's books	..	103	103	
	Total ..	..	2,751	2,751	II (*a*).
	Firewood	Tons 6,288 / Lb. 2,053	4,716	4,716	
	Charcoal	Tons 66 / Lb. 840	199	199	
	Balance of the amount of the sandal-oil still contract for season, 1886-87.	..	933	933	
	Materials used by timber contractor ..	Tons 2 / Lb. 1,213	2	2	
	Add as per Examiner's books	..	14	14	
	Total ..	..	5,864	5,864	II (*b*).
	Bamboos	No. 44,335	571	571	
	Add as per Examiner's books	..	9	9	
	Total ..	..	580	580	II (*c*).
	Grass	..	12	12	II (*d*).
	Leaves	Tons 26 / Lb. 1,936	14	14	
	Assessment on Neriya cardamom estate ..	..	3,000	3,000	
	Tree rent	..	1,026	1,026	
	Other minor produce	..	57	57	
	Add as per Examiner's adjustment	..	15	14	
	Total ..	..	4,112	4,111	II (*e*).
	Total of district ..	..	13,319	13,318	
	Grand Total of all districts ..	..	6,04,562	6,03,580	

ABSTRACT.

Districts.	Timber.		Firewood and Charcoal.			Bamboos.			Minor produce.		
	C. FT.	NO.	TONS.	LB.	NO.	TONS.	LB.	NO.	TONS.	LB.	NO.
Chingleput ..	79,871	..	5,902	1,500½	..	104	224	..	2,857	..	..
North Arcot ..	105,405½	45	35,172	119	16	6,602	2,016	..	..	..	..
South Arcot ..	54,411⅝	892	11,957	916	9,412	484	1,400	88	5,233	1,257	57,000
Salem	173,593	..	22,212	1,080	..	10,169	1,904	..	182	1,801½	..
Trichinopoly ..	204,016	76	10,316	139	..	1,592	215	1,449	1,846	280	..
Tanjore	3,701	58	4,229	1,384	..	30	336	..	..	..	..
North Coimbatore.	41,241	..	8,717	19	..	4,142	560	..	..	..	..
South do. ..	25,074	961	13,929	..	..	1,494	..	..	..	..	..
Madura	328,822	..	11,131	1,968	..	892	616	..	15,677	1,138	..
Tinnevelly ..	39,557	..	11,953	1,826	..	123	1,293	..	..	..	..
North Malabar ..	666⅔	27	..	..	..	..	..	16,361	..	..	..
South do. ..	7,509	9,180	5,529	..	..	11	616	15,658	..	..	..
South Canara ..	111½	631	6,357	1,866	..	..	..	44,335	26	1,936	..
Total ..	1,063,979	..	147,408	1,857	..	25,647	220	..	25,823	1,932½	..
	* 31,009	..	† 2,324	..	..	‡ 1,558	..	..	§ 57	..	..
	1,094,988= Ts. 27,375	..	149,732	1,857	..	27,205	2,220	..	25,880	1,932½	..

* Represents the estimate of 11,870 trees and poles.
† Do. do. of 9,428 trees.
‡ Represents the estimate of 77,891 bamboos.
§ Do. do. of 57,000 palmyra leaves.

	Sales. RS.	Actually realized. RS.
II (*a*) Timber	99,254	98,883
II (*b*) Firewood and Charcoal	1,58,623	1,58,618
II (*c*) Bamboos	76,545	76,254
II (*d*) Grazing and Fodder grass	45,918	46,038
II (*e*) Grass and other minor produce	2,24,222	2,23,787
Total ..	6,04,562	6,03,580
Add outstandings due from previous year as per form No. 66	25,922	
Total ..	6,30,484	
Deduct amount realized during the year	6,03,580	
Balance ..	26,904	
Deduct arrears of tree rents in North Coimbatore, written off the accounts as per G.O., dated 19th August 1887, Mis. No. 4897, Revenue Department ..	19,200	
Balance outstanding on 31st March 1888 as per form No. 66	7,704	

Annual Form No. 72-B.

Forest Department, Madras, Southern Circle.

Timber and other Produce confiscated during the year 1887-88.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Chingleput ..	Junglewood	C. ft. 126	28	28	III.
	Firewood	Tons. lb. 9 2,030			
North Arcot ..	Miscellaneous timber	C. ft. 221 / No. 103	129	129	
	Firewood and charcoal	Tons. lb. 22 224	75	75	
	Bamboos	1 616	12	12	
	Minor produce	8 952 / No. 76	22	22	
	Total ..	..	238	238	III.
South Arcot ..	Teak rafters	C. ft. 10	5	5	
	Miscellaneous timber	,, 349½ / No. 423	177	177	
	Firewood	Tons. lb. 51 1,475	100	100	
	Charcoal	0 168	1	1	
	Bamboos	1 896	8	8	
	Minor produce	35 1,848 / No. 1,321	69	69	
	Total ..	..	360	360	III.
Salem	Teak	C. ft. 8	2	2	
	Classified timbers	,, 323	62	62	
	Junglewood	,, 1,178½	117	117	
	Miscellaneous timbers	,, 457 / No. 89	91	91	
	Firewood	Tons. lb. 25 1,736	68	68	
	Charcoal	0 1,120	5	5	
	Bamboos	10 952 / No. 15	57	57	
	Sandalwood	Tons. lb. 0 4½	1	1	
	Minor produce	0 1,120	22	22	
	Total ..	..	425	425	III.
Trichinopoly ..	Timber	C. ft. 23	14	14	
	Firewood	Tons. lb. 13 140	88	88	
	Bamboos	No. 493	10	10	
	Minor produce	..	75	75	
	Total ..	..	187	187	III.
Tanjore	Firewood	Tons. lb. 2 672	10	10	III.
North Coimbatore.	Miscellaneous timber	C. ft. 58½ / No. 8	45	45	
	Firewood	Tons. lb. 2 448	6	6	
	Bamboos	1 896	6	6	
	Sandalwood	0 100	2	2	
	Minor produce	1 448 / No. 2	19	19	
	Total ..	..	78	78	III.

Timber and other Produce confiscated during the year 1887-88—*cont.*

District.	Produce removed — Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			RS.	RS.	
South Coimbatore.	Timber	C. ft. 400 No. 30	384	384	
	Firewood	TONS. LB. 10 1,344 No. 18	22	22	
	Bamboos	TONS. LB. 0 1,120	2	2	
	Minor produce	0 168	4	4	
	Total ..	..	412	412	III.
Madura	Vengai	C. ft. 40	31	31	
	Blackwood	,, 34½	30	30	
	Teak	,, 35½	20	20	
	Junglewood	,, 1,094	118	118	
	Miscellaneous timbers	,, 100	15	15	
	Firewood	TONS. LB. 26 1,736	72	72	
	Charcoal	4 56	26	26	
	Bamboos	0 560	1	1	
	Minor produce	10 784	135	135	
	Total ..	..	448	448	III.
Tinnevelly ..	Timber	C. ft. 185	281	281	III.
	Firewood	TONS. LB. 33 1,176			
	Charcoal	5 1,008			
	Bamboos	0 280			
	Minor produce	7 672 No. 111			
North Malabar ..	Jack and junglewood	..	18	18	III.
South Malabar ..	Timbers	C. ft. 385	79	79	
	Bamboos	Bundles 22	1	1	
	Total ..	..	80	80	III
South Canara ..	Timbers	No. 159	101	101	
	Firewood	TONS. LB. 28 67 No. 4 stacks	66	66	
	Bamboos	,, 154	1	1	
	Minor produce	TONS. LB. 0 22½ No. 65	18	18	
	Add as per Examiner's figure for which District Forest-officer has not furnished details.	..	..	303	
	Tota ..	..	186	489	III.
	Grand Total ..	..	..	3,054	

Abstract of Form No. 72-B.

District.	Timber.	Sandalwood.	Firewood and charcoal.	Bamboos.	Minor produce.
		TONS. LB.	TONS. LB.	TONS. LB.	TONS. LB.
Chingleput	C. ft. 126	..	9 2,030	..	..
North Arcot	,, 221 No. 103	..	22 224	1 616	8 952 and No. 76
South Arcot	C. ft. 359½ No. 423	..	51 1,643	1 896	35 1,848 and No. 1,321
Salem	C. ft. 1,966½ No. 89	0 4½	26 616	10 952 No. 15	0 1,120
Trichinopoly	C. ft. 23	..	13 140	..	..
Tanjore	..	..	2 672	..	..
				TONS. LB.	
North Coimbatore	C. ft. 58½ No. 8	0 100	2 448	1 896	1 448 and No. 2
South Coimbatore	C. ft. 400 No. 30	..	10 1,344 No. 18	0 1,120	0 168
			TONS. LB.		
Madura	C. ft. 1,304	..	30 1,792	0 560	10 784
Tinnevelly	,, 185	..	38 2,184	0 280	7 672 and No. 111
North Malabar			*Nil.*		
South Malabar	C. ft. 385	..	..	..	..
South Canara	No. 189	..	28 67 No. 4	No. 154	0 22½ and No. 65
	C. FT.	TONS. LB.	TONS. LB.	TONS. LB.	TONS. LB.
	5,028½	0 104½	235 2,200	15 840	63 1,534½
	(a) + 8,420		(b) + 7 0	(c) + 13 0	(d) + 1 0
Total ..	C. ft. 13,448½ =Tons 336	0 104½	242 2,200	28 840	64 1,534½

(a) The estimate of 842 trees.
(b) Do. of 22 do.
(c) The estimate of 662 bamboos.
(d) Do. of 1,575 casuarina plants.

ANNUAL FORM No. 73-A.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1887-88.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Chingleput	.... ..				*Nil.*					
North Arcot ...	Redwood roots and stumps	Tons. lb. 15 ..	..	225	Tons. lb. 326 0	..	4,890	4,665	..	
	Sandalwood and roots	6 430	..	495	32 506	..	2,578	2,083	..	
	Jungle, babul and casuarina woods	191 948½	..	383	166 319½	..	332	..	51	
	Total ..	212 1,378½	..	1,103	524 825½	..	7,800	6,697	..	
South Arcot ..	Mango wood	..	..	..	No. 6	C. ft. 24 11	6	6	..	
	Firewood	Tons. lb. ..	..	..	Tons. lbs. 5 1,022	..	30	30	..	
	Sandalwood billets	2 634½	..	514	1 2,215	..	500	..	14	
	Honey	0 11	..	2	..	..	..	..	2	
	Thatching grass	1 0	..	1	..	..	..	..	1	
	Wax	..	..	..	0 4	..	1	1	..	
	Total ..	3 645½	..	517	7 1,001	..	537	20	..	
					No. 6	C. ft. 24 11				
Salem ..	Acha	No. 21	C. ft. 25 5	32	No. 2	C. ft. 3 1	4	..	28	
	Vengai	3	5 10	8	2	3 11	5	..	3	
	Teak post	..	..	..	2	4 4	4	4	..	
	Sandalwood	Tons. lb. 2 14	..	1,056	Ton. lb. 1 672	..	522	..	534	
	Total ..	2 14	31 3	1,096	1 672	11 4	535	..	561	
Trichinopoly ..	Firewood	Tons 212	lbs. 207	634	Ton 80	..	240	..	394	

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1887-88 —*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Tanjore					*Nil.*					
North Coimbatore ..	Sandalwood	Ton. lb. 0 1,681¼	..	234	Ton. lb. 0 1,681¼	..	234	..	..	
		No.	C. ft.		No.	C. ft.				
South Coimbatore ..	Teak logs	348	11,556	8,307	790	29,217	21,000	12,693	..	
	Teak rafters	..	..	..	270	2,858	1,607	1,607	..	
	Rosewood	150	2,302	575	..	..	..	..	575	
	Dammer	..	..	..	Tons. lb. 0 93¾	..	5	5	..	
	Total ..	468	13,858	8,882	..	32,075	22,612	13,730	..	
Madura	Firewood	Tons. lb. 28 2,205	..	82	Tons. lb. 176 610	..	550	468	..	
		No.	C. ft.		No.	C. ft.				
Tinnevelly ..	Kongu logs	89	64	54	14	18	18	..	36	
	Miscellaneous pieces	155	..	30	..	..	..	..	30	
	Bamboo pattais	..	..	..	Tons. lb. 4 2,025	..	129	129	..	
	Total ..	244	54	84	..	18	147	63	..	
North Malabar ..					*Nil.*					
	Selection felling.	No.	C. ft.		No.					
South Malabar ..	Teak	272	3,184	4,000	..	..	..	..	3,875	
	Blackwood	108	1,444		..	..	..			
	Miscellaneous	320	4,211		20	200	125			

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1887-88—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
	Clearings.		C. ft.	Rs.			Rs.	Rs.	Rs.	
South Malabar—*cont.*	Teak	97	1,549	1,000	..	..	..	1,000	1,000	
	Blackwood	3	52		..	..	..			
	Miscellaneous	193	2,372		..	..	..			
	Do poles	104	302		..	..	..			
	Teak saplings, superior	2,829	31,739	45,000	1,648	5,677	21,000	..	24,000	
	Do. small	2,709			1,366	2,732				
	Do. classified	47,019			13,645	7,294				
	Bamboos	7,786	= 156 Tons.	300	..	..	..	..	400	
	Kariyas	2,775	= 56 „	100	36	..	..			
	Total ..	64,215	C. ft. 44,853 Tons. 212	50,400	..	15,903	21,125	..	29,275	
South Canara ..		No.	C. ft.							
	Rosewood logs	22	417	589	..	..	..	..	589	
	Vengai	4	82	71	..	..	..	..	71	
	Miscellaneous	68	1,584	1,235	..	..	..	..	1,235	
	Total ..	94	2,083	1,895	..	..	..	..	1,895	
	Grand Total.									
	Teak	..	C. ft. 48,028	53,307	..	C. ft. 47,782	43,611	..	..	
	Rosewood	..	4,215	1,164	..	..	..	..	..	
	Vengai	..	88	79	..	4	5	..	..	
	Miscellaneous timber	..	10,298	6,451	..	246	153	..	..	
			Tons.			Tons.				
	Redwood roots	..	15	225	..	326	4,890	..	..	
	Firewood	..	488	1,099	..	429	1,152	..	..	
	Bamboos	..	156	300	..	5	129	..	..	
	Sandalwood roots and billets	..	12	2,299	..	36	3,834	..	..	
	Minor produce	..	1	3	..	..	6	..	..	
	Total ..	..	..	64,927	..	..	53,780	..	11,147	

Annual Form No. 73-B.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Live-stock, Stores, Tools and Plant for the year 1887-88.

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.	
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.
			Rs.		Rs.	Rs.	Rs.
Chingleput ..	Surveying instruments	4	91	17	325	234	..
	Tools	97	353	143	383	30	..
	Furniture	23	284	26	293	9	..
	Buildings	..	..	2	240	240	..
	Total ..	124	728	188	1,241	513	..
North Arcot ..	Surveying instruments	(a) 34	851	34	809	..	42
	Machinery	2	56	2	53	..	3
	Tools	667	914	678 Cwt. 32-94	1,154	240	..
	Furniture	(a) 64	(b) 267	85	507	240	..
	Buildings	40	3,906	40	3,711	..	195
	Total ..	806	5,994	839 Cwt. 32-94	6,234	240	..
South Arcot ..	Surveying instruments	17	605	17	605	..	..
	Machinery	7	256	7	271	15	..
	Tools	336	208	514	293	85	..
	Furniture	127	800	158	988	188	..
	Miscellaneous	420	941	421	1,141	200	..
	Buildings	9	2,365	9	2,865	500	..
	Live-stock	2	20	2	20	..	..
	Total ..	918	5,195	1,128	6,183	988	..
Salem	Surveying and other instruments	43	811	47	966	155	..
	Tools	125	382	197	820	438	..
	Furniture	16	115	16	115	..	..
	Miscellaneous	7	28	7	28	..	..
	Buildings	..	..	3	75	75	..
	Total ..	191	1,336	270	2,004	668	..
Trichinopoly ..	Surveying and other instruments	4	307	6	325	18	..
	Tools	715	788	724	809	21	..
	Furniture	45	353	45	352	..	1
	Buildings	13	1,565	13	1,615	50	..
	Miscellaneous	133	549	133	549	..	..
	Live-stock	20	538	20	537	..	1
	Total ..	930	4,100	941	4,187	87	..
Tanjore	Surveying and other instruments	19	..	19	..	..	..
	Tools	206	..	213	16	16	..
	Furniture	20	..	20	..	..	..
	Miscellaneous	20	..	21	17	17	..
	Buildings	4	280	4	323	43	..
	Total ..	269	280	277	356	76	..
North Coimbatore	Surveying and other instruments	(c) 11	51	14	55	4	..
	Tools	758	328	997	991	663	..
	Furniture	170	47	183	190	143	..
	Buildings	(d) 18	1,270	35	3,645	2,375	..
	Total ..	957	1,696	1,229	4,881	3,185	..

(a) The differences are due to erroneous classification in previous year.
(b) District Forest-officer has increased the value by Rs. 14.
(c) 10 in previous return is a clerical error.
(d) 19 in previous return is a clerical error.

Abstract showing the value of Live-stock, Stores, Tools and Plant, &c.—*cont.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.	
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.
			Rs.		Rs.	Rs.	Rs.
South Coimbatore	Surveying and other instruments	36	..	39	59	59	..
	Tools	380	..	381	..	..	..
	Furniture	152	24	152	24	..	..
	Miscellaneous	7	..	7	..	..	..
	Buildings	..	..	29	157	157	..
	Total	575	24	608	240	216	..
Madura	Surveying and other instruments	21	439	22	491	52	..
	Machinery	1	18	1	18	..	..
	Tools	82	197	103	387	190	..
	Furniture	69	85	81	183	98	..
	Buildings	62	3,452	66	3,772	320	..
	Live-stock	4	..	6	120	120	..
	Total	239	4,191	279	4,971	780	..
Tinnevelly	Surveying and other instruments	27	533	27	548	15	..
	Tools	231	(e) 343	262	436	93	..
	Furniture	248	1,291	269	1,405	114	..
	Buildings	63	3,847	67	5,372	1,525	..
	Total	569	6,014	625	7,761	1,747	..
North Malabar	Surveying and other instruments	13	406	33	407	1	..
	Tools	* 12	(f) 179	13	194	15	..
	Furniture	..	..	2	1	1	..
	Miscellaneous	* (g) 19	192	27	220	28	..
	Live-stock	16	(i)15,006	11	14,192	..	814
	Buildings	..	..	8	1,567	1,567	..
	Total	60	15,783	94	16,581	798	..
South Malabar	Surveying and other instruments	2	..	13	304	304	..
	Machinery	13	54	18	90	36	..
	Tools	537	223	641	335	112	..
	Furniture	34	149	38	149	..	..
	Buildings	12	386	17	5,128	4,742	..
	Miscellaneous	136	531	164	596	65	..
	Building materials	..	..	10,000	126	126	..
	Live-stock	8	..	12	(k) 4,002	4,002	..
	Total	742	1,343	10,903	10,730	9,387	..
South Canara	Surveying instruments	44	..	43	..	..	..
	Tools	(h) 331	..	369	..	..	..
	Machinery	1	..	1	..	..	..
	Furniture	82	..	90	..	..	..
	Buildings	12	..	15	170	170	..
	Miscellaneous	252	..	256	..	..	..
	Total	722	..	774	170	170	..
Grand Total	Surveying and other instruments	275	4,094	331	4,894	800	..
	Tools	4,477	3,915	5,235	5,818	1,903	..
	Machinery	24	384	29	432	48	..
	Furniture	1,050	3,415	1,165	4,207	792	..
	Buildings	233	17,095	308	28,664	11,569	..
	Building materials	..	..	10,000	126	126	..
	Live-stock	50	15,564	51	18,871	3,307	..
	Miscellaneous	994	2,241	1,036	2,551	310	..
	Total	7,103	46,708	18,155	65,563	18,855	..

(e) 243 in previous return is a clerical error.
(f) Less by Rs. 26 as given by District Forest-officer.
(g) Less by 12 articles as given by District Forest-officer.
(h) The difference, 4, is due to clerical error in previous year's return.
(i) Rs. 4,600 omitted in previous return is now supplied.
(k) Includes Rs. 3,300 value of two elephants purchased for South Coimbatore.
* 11. Tools and 32. Miscellaneous in previous year's return are clerical errors for 12 and 31, respectively.

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of Elephants in Southern Circle during the year 1887-88.

PART I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
	Elephants.			RS. A. P.	
North Malabar ..	1. Chloe	Purchased in January 1878.			
	2. Phyllis				
	3. Lakshmi	Transferred from Anaimalais in May 1881.			
	4. Sankara				
	5. Ranee	Captured in June 1885 ..	Per head ..	27 0 0	
	6. Maharajah	Captured in the Government pit at Trans Beni during 1886-87.			
	7. Jumboo				
South Malabar ..	1. Yixen	Transferred from Wynaad in 1882.			
	2. Peyroo				
	3. Sampson ..	Purchased from Mr. Morgan in 1884.			
	4. Eva				
	5. Theebaw	Captured on 3rd January 1886.			
	6. Lucy	Captured on 15th February 1886.	Do. ..	27 0 0	
	7. Juno	Captured on 17th February 1886.			
	8. W. Juno	Purchased on 15th December 1886.			
	Other Cattle.				
South Arcot ..	1. Vellian } 2. Karuppan } Buffaloes.	Purchased in November 1885.	Per head ..	0 12 0	
Trichinopoly ..	Twenty bullocks, *i.e.*, 10 pairs.	Purchased in April 1885 and April 1886.	Do. ..	3 7 0	
South Coimbatore.	One bullock	Transferred from the late Jungle Conservancy Department during 1882-83.	..	..	
Madura	Two Kodaikánal depot bullocks.	Purchased in the local market in April 1885.	Per head ..	8 0 0	
	Two Navinipatti garden bullocks.	Purchased on the 31st March 1886.			
North Malabar ..	Nine Coorg buffaloes ..	Purchased in 1884-85 ..	..	..	..

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
	Elephants.			RS. A. P.	
North Malabar ..	....	....	..	..	
South Malabar ..	1. Jupiter	July 1887	Per head ..	20 0 0	
	2. Mars				
	3. Parvathi .. .	....	..	..	Purchased at end of the year for South Coimbatore.
	4. Karthiamma				
	Other Cattle.				
South Arcot ..	....	....	..	..	
Trichinopoly ..	....	....	..	..	
South Coimbatore.	....	....	..	..	
Madura	Two ponies for Kodaikánal depot.	Purchased in the local market in January 1888.	Per head ..	21 0 0	
North Malabar ..	....	....	..	..	

Part III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	How disposed of.
	Elephants.		Rs. A. P.	
North Malabar ..	....	....	.. ..	
South Malabar ..	....	....	.. ..	
	Other Cattle.			
South Arcot ..	....	....	.. ..	
Trichinopoly ..	....	....	.. ..	
South Coimbatore..	One bullock	....	.. ..	Transferred to Collector's charge.
Madura	....	....	.. ..	
North Malabar ..	One Coorg buffalo ..	1884-85	.. ..	Died in April 1887.
	Do.	Do.	.. ..	Do. in July 1887.
	Three Coorg buffaloes ..	Do.	.. ..	Do. in March 1888.

OFFICE OF CONSERVATOR OF FORESTS, N.C.,

No. . MADRAS, 18th July 1888.

From

A. W. PEET, ESQ.,

ACTING CONSERVATOR OF FORESTS,

Northern Circle.

To

THE SECRETARY TO THE COMMISSIONERS

OF LAND REVENUE,

MADRAS.

SIR,

I have the honor to forward the annual Forest Administration Report for the Northern Circle for the year 1887-88.

I have the honor to be,

Sir,

Your most obedient Servant,

Acting Conservator of Forests, N.C.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE NORTHERN CIRCLE, MADRAS,

FOR THE YEAR 1887-88.

By A. W. PEET, Esq., Acting Conservator of Forests.

CHAPTER I.

Introductory Remarks.

Mr. J. S. Gamble gave over charge of the Circle on 7th April 1887 to Mr. A. W. Peet. The Acting Conservator visited during the year Nellore, Kurnool, Cuddapah, Bellary, Anantapur, Ganjam, Godávari, Kistna and of course the Nílgiris. In Nellore, he visited almost all the plantations and gave personal instructions as to working, and went across the district with the District Forest-officer to Cuddapah. His main object was to confer with and advise the District Forest-officer as regards settlement, the details of which were unusually intricate in this district, and of paramount importance.

2. In Cuddapah no regular tour was made, as the rains were on and the camp was broken up by cholera, one death occurring. The Acting Conservator went on to Nandyál, Kurnool district, without a camp, and conferred with the District Forest-officer, who afterwards accompanied him to Bellary to give the benefit of his advice, as Mr. Hooper (District Forest-officer, Kurnool) had formerly been in charge of the Bellary district, which was new both to Mr. Sweet and to the Acting Conservator. Mr. Sweet was in charge both of Bellary and Anantapur and a tour was made with him in the latter district. The Acting Conservator sent in no formal inspection notes for these districts, as he was only learning the working himself, and made no attempt at suggesting a new policy. Formal inspection notes were sent in for Ganjam and Godávari where more time was spent, and certain alterations seemed advisable in the disposition of establishments. There was no District Forest-officer to spare for Vizagapatam, and proposals were made to put the Northern part under the District Forest-officer of Ganjam, and the Southern under the District Forest-officer of Godávari. The Acting Conservator met the Collectors of Ganjam, Godávari, Nellore, Cuddapah, Bellary and the Nílgiris during the year, but missed the Collector of Kurnool (the head-quarters being much off the line of the forests), Anantapur, Kistna and Vizagapatam; the three latter Collectors were away on tour.

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3. The Circle was very short of officers during the year—

Ganjam lost its permanent District Forest-officer for six months, and his place had to be taken by an inexperienced Sub-Assistant.

Nellore lost its permanent District Forest-officer early in the year.

Cuddapah lost its permanent District Forest-officer in July.

Bellary and Anantapur were classed as one charge, and had to be placed under an Assistant Conservator, who had had but little experience, and who was suffering constantly from fever.

Vizagapatam had no separate District Forest-officer at all.

4. The following list shows the time spent in camp by the different officers :—

District.	Officer in charge.	Time in charge.	Days in camp.
Ganjam	Mr. A. W. Lushington, Assistant Conservator	173	153
	,, C. L. Toussaint, Sub-Assistant do.	152	95
Godávari	,, J. S. Battie, Assistant Conservator	366	179
Kistna	,, G. Homfray, do.	366	228
Nellore	,, F. D. A. Vincent, Deputy Conservator	30	..
	,, J. H. B. Brougham, Assistant do.	336	192
Cuddapah	,, A. W. B. Higgens, Deputy Conservator	138	71
	,, F. A. Lodge, Assistant Conservator	228	123
Kurnool	,, E. D. M. Hooper, Deputy Conservator	366	257
Bellary	,, J. H. B. Brougham, Assistant Conservator	40	12
	,, H. T. D. Sweet, do.	252	74
	,, H. H. Ward, Acting Sub-Assistant	32	..
Anantapur	,, T. Somasundra Mudaliar, Sub-Assistant	268	210
Nilgiris	Colonel R. S. Jago, Deputy Conservator	264	89
	Mr. P. M. Lushington, Assistant Conservator	67	37
	T. M. Nallasawmy Naidu, Forest Ranger	35	23

During the changes necessitated by officers going on leave one or more districts were temporarily in the charge of Deputy Collectors or Collectors direct.

The time spent on tour was, with one or two exceptions, very satisfactory.

5. The chief works during the year were —

Ganjam.—Settlement of 10 reserves; selection of 9 blocks in Chicacole.

Vizagapatam.—Almost *nil.*

Godávari.—Settlement of 12 blocks in Bhadráchalam and 2 in the Delta Range completed. Settlement of 22 other blocks very nearly completed. Notification under section 4 of 8 blocks; selection of three blocks; and amended proposals sent in for certain large reserves in Juddangy and Lakkonda, originally proposed in 1886. Demarcation.

Kistna.—Settlement almost complete for all proposed reserves, except in Bezváda.

Nellore.—Settlement work very heavy. Departmental operations in Sríharikót fuel reserve, and in the casuarina plantations.

Cuddapah.—Settlement of 46 reserves by Mr. Higgens, 6 of which are finally notified. Inspection and demarcation by Mr. Lodge. Departmental collection of redwood.

Kurnool.—Settlement. Demarcation of Nallamalais. Selection of reserves in Yerramalais. Commencement of grazing licenses.

Bellary.—Selection of 15 blocks. Settlement behindhand.

Anantapur.—Settlement of a few reserves, not however completed, except such as were taken up by the Head Assistant Collector.

Nilgiris.—Settlement nearly completed. Systematic working of forests.

6. The area of forests in the Northern Circle was increased by 150½ square miles, the changes being as follows :—

	SQ. MILES.
A. Forest reserved under Act V of 1882	+ 150½
B. Do. do. previous rules	— 17½
C. Reserved lands	34½
D. Leased forests	...
E. Other forests	...
F. Unclassed forests and waste lands	...

7. The following statement gives the details for 1887-88 :—

Class of forest.	Area on 31st March 1887.	Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1888.	Source of increase and decrease.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	
A. Reserved forests under Act V.	474½	150½	..	+ 150½	625	150½ square miles from B and C.
B. Reserved forests under previous rules.	* 786	..	17½	— 17½	768½	* Correction. 17½ square miles are transferred to A and are included in 150½ square miles.
C. Reserved lands ..	† 6,332¾	235	{ 150½ ‡ 50 }	+ 34½	6,367¼	† The increase of 2,494¾ square miles accounts for the omission of area during 1886-87. ‡ Excluded at settlement.
D. Leased forests	198½	..	..	..	198½	
E. Other forests	..	..	..	..	..	
F. Unclassed forests and waste lands.	..	..	..	..	..	
Total ..	7,791¾	385½	218	167½	7,959¼	

CHAPTER II.

Area and Boundaries.

8. *Form No.* 59-*A* gives the area of reserved forests. At the commencement of the year, the area was 474½ square miles, at the close 625 square miles, an increase of 150½ square miles, the details being as follows:—

	SQ. MILES.
Ganjam	8½
Kistna	13
Nellore	37
Cuddapah	78
Nílgiris	14
Total ...	150½

A fraction was also added in Godávari.

9. *Form No.* 59-*B* is given in full this year as it was omitted for two years in the annual reports. It gives the area of forests reserved under orders previous to the Forest Act.

From the total areas given in the full form for the year 1884-85, have been deducted the areas transferred during 1885-86 and 1886-87—paragraph 7 of report for 1886-87.

After deducting also the area transferred during the year under report, the balance is 768½ square miles, the details being as follows:—

	SQ. MILES.
Godávari	68
Kistna	156
Nellore	218
Cuddapah	280½
Bellary	1
Anantapur	5
Nílgiris	40
Total ...	768½

10. The proposed reserves notified during the year under section 4 were as follows:—

61. Anantapur	...	Nagasamudram, North ...	Notification No. 203 of 20th May 1887.
		Do. South ...	
		Peddadoddi	
		Bhadrampalle	
		Pamidi	
		Cutturmulla	
		Jakkalacheruvu	
		Marutla	
		Tarramalla	
62. Do.	...	Durgam	Notification No. 205 of 20th May 1887.
		Kudair	
		Upparapalli (Babul tract) ...	
63. Godávari	...	Velagalapalle	Notification No. 210 of 23rd May 1887.
		Chintalapudi	
		Barrikonda	
		Erraguntapalle	
		Bandamcherla	
		Tadikalapudi	
		Ramasingavaram	
64. Do.	...	Ramasaram	Notification No. 213 of 23rd May 1887.
65. Nellore	...	Udayagiri (East) and Appasamudram.	Notification No. 243 of 1st July 1887.
66. Do.	...	Griddalúr	Notification No. 245 of 1st July 1887.
67. Do.	...	Bommavaram	Notification No. 247 of 1st July 1887.
		Prabagiripatnam	
68. Do.	...	Alipuram	Notification No. 250 of 1st July 1888.
69. Godávari	...	Upputer	Notification No. 291 of 29th July 1888.
70. Kistna	...	Bápatla, No. 2	Notification No. 350 of 11th October 1887.
		Kothapalem, No. 2	
		Adavula Divi	
		Dindi	
71. Do.	...	Kondúr	Notification No. 351 of 11th October 1887.
72. Bellary	...	Gummanur, North and West.	Notification No. 65 of 20th February 1888.
		Do. North and East.	
		Do. North	
73. Kurnool	...	West Rámallakót	Notification No. 74 of 6th March 1888.
		Lanjabanda	
		East Rámallakót	
		Yaipalapadu	
		South Dhone	
		North Dhone	
		Gadithemadugu	
74. Bellary	...	Timmapuram	Notification No. 87 of 20th March 1888.

The numbers are carried on from last year's annual report.

11. *Form* 59-*C* gives the area of reserved lands.

A considerable rectification of area has been noted in Ganjam where nearly 166 square miles have been deducted from the figures given last year. The areas of reserved lands and proposed reserves are often very roughly calculated, and large tracts have to be given up when actual demarcation is made. It is often found that what appears on the map as a tract of waste land is honeycombed with cultivation and has to be left out of a reserve.

There is an increase of 2,494¾ square miles, because tracts proposed under section 4 of the Forest Act have now been included under reserved lands. The details are given below:—

	Sq. miles.
Ganjam	556½
Godávari	646½
Kistna	82½
Nellore	507
Cuddapah	433
Bellary	15¼
Anantapur	141½
Nílgiris	112
Total ...	2,494¾

12. *Village Forests.*—No definite steps have been taken in this matter; but the wants of villagers have been considered in most of the settlements gone into during the year.

SETTLEMENT.

13. Only one reserve in Ganjam has been notified under section 16 during the year, but the settlement of six others has been completed and forwarded to Board. The settlement of three more was finished in April, eight are nearly settled, and thirteen are in hand.

No work has been done yet in Berhampore towards settling the Mohiri hills; but this should certainly be taken in hand without delay. The settlement has made fair progress in Goomsur.

Godávari.—Settlement has made fair progress. The settlement of 36 blocks is virtually finished, that of nine other blocks is in progress.

Kistna.—Special attention has been paid by Mr. Homfray to this subject, and he has spent all his available time with the Forest Settlement-officer. He was unable to go out for two months in consequence of an accident, but spent 228 days in camp out of 10 months, attending chiefly to settlement; and he deserves credit. The inquiry of the latter into claims has been finished for almost all the proposed reserves except those in the Bezváda taluk. Final notifications were submitted to Government for ten blocks during the year. The claims of agraharams in the Krósúr and Vinukonda taluks and the Pálnad caused the greatest delay to the settlement.

Nellore.—The work was especially heavy, and Mr. Brougham paid extreme attention to defending the interests of Government. Mr. Vincent before leaving had warned the Conservator that much was at stake. It was found that fresh defences had to be made in the case of several of the important claims; for instance, Mr. Vincent's defence against a claim of certain shrotriems to hill poramboke was that the surveyed boundary stopped short at the foot of the hills. However, on a reference to the Superintendent of Survey, it was found that this plea could not be maintained, and a much more elaborate defence was necessary, entailing much research into records. In all 125 blocks have been notified in this district; numerous claims have been put forward by shrotriemdars, and by the Kálahasti Rajah, who owns so large a portion of this district. The shrotriemdars' claims cannot be settled unfortunately till the boundaries of villages have been determined under Act XXVIII of 1860. The Rajah's claims are nearly settled.

The Sríharikót firewood reserve claims have been most vexatious. There were claims to land, claims of enormous extent to scattered trees held on patta, and claims by karnams and notagars to a hereditary commission, and the claims of a temple also to an annual payment. The bill sent in for trees alone was enormous, and is under revision. The claim to the trees was admitted by Mr. Tate, the former Settlement-officer.

Cuddapah.—Good progress was made during the year. Six reserves were finally notified during the year; but the settlement of no less than 40 more was finished by Mr. Higgens before he went on leave.

Kurnool.—The district report on the subject of settlement is rather indefinite. It is stated that "the settlement of the Nallamalais during the year has amounted to

but little. The work has, however, included the decision in favor of Government by the District Judge of the claims to shrotriem hill wastes advanced by the Forest Department in no less than nine instances in the eastern taluks." There is no definite information as to the cause of the delay in the settlement, or as to its state of progress.

Bellary.—Progress was very slow. The Deputy Collector of Adóni finished the settlement of the reserves in Adóni (excepting East and West), but was transferred from the district before issuing final notification. The Forest Settlement-officer appointed for the district, exclusive of Adóni and Alúr taluks, inspected certain proposed reserves, and then returned to Nellore for other duty.

Anantapur.—The work has been done by Divisional officers, and has been delayed partly by the necessity under which these officers were to attend to their other work, partly by the fact that the District Forest-officer could not attend simultaneous sittings of separate Settlement courts, and partly on account of the ill-health of the District Forest-officer.

The Head Assistant Collector settled 12 out of 14 blocks. The Anantapur Deputy Collector did not finish the settlement of Muchukota, and three more blocks remain to be settled by him. No settlement was done in the charge of the Deputy Collector, Gooty.

Nilgiris.—Settlement is very forward in this district. During the year six blocks were finally notified, and little remains to be done.

PROGRESS OF SETTLEMENT.

District.	Areas finally settled up to 31st March 1888.	Areas notified under section 4 up to 31st March 1887, but not settled.	Areas notified under section 4 in 1887-88.	Total of 3 and 4.	DEDCUT AREAS.		Balance to be settled.
					Settled in 1887-88.	Excluded, &c. in 1887-88.	
1	2	3	4	5	6		7
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Ganjam	8½	* 540½	..	540½	8½	..	532
Vizagapatam ..	..	..	8	8	..	..	8
Godávari	..	646½	65½	712	..	4	708
Kistna	13	691½	16	707½	13	8½	686
Nellore	38	* 506	7	513	37	..	476
Cuddapah	350	1,573	..	1,573	78	37½	1,457½
Kurnool	..	1,677	41½	1,71 ½	..	..	1,718½
Bellary	..	198¾	3	201¾	..	..	201¾
Anantapur	13½	156½	87	243½	..	..	243½
Nilgiris	202	120	..	120	14	..	106
Total ..	625	6,109¾	228	6,337¾	150½	50	6,137¼

* Rectification of area.

14. The Forest Settlement-officers employed in the different districts were :—

Ganjam.—The Senior Assistant Collector and the General Duty Deputy Collector.

Vizagapatam.—Special Assistant Collector.

Godávari.—Special Assistant Agent, the Sub-Collector, Rajahmundry, the General Duty Deputy Collector and a Special Forest Settlement-officer, Mr. Jagganadha Row.

Kistna.—A Special Forest Settlement-officer, Mr. Jagganadha Row.

Nellore. Do. do. Mr. Sarabalingam Naidu.

Cuddapah. Do. do. do.

Kurnool. Do. do. Mr. Jagganadha Row and the Deputy Collector for the Yerramalais.

Bellary.—Special Forest Settlement-officer, Mr. Sarabalingam Naidu and the General Duty Deputy Collector.

Anantapur.—Head Assistant Collector, Deputy Collector, Gooty, and Temporary Deputy Collector, Anantapur.

Nilgiris.—Head Assistant Collector and Mr. A. E. Castle-Stuart Stuart.

DEMARCATION.

15. *Ganjam.*—The number of miles cleared during the year is not readily to be ascertained from the district report, as the work of the year is not clearly separated from the work of previous years. On the whole demarcation is fairly advanced in Goomsur, especially in the eastern portion; and the lines have been almost all cut in Berhampore, but no post erected there. The charges for demarcation during the year are very high, viz., Rs. 6,535. A very large proportion of this charge is for upkeep of the lines, as a large staff of men has been employed on daily pay to act partly as watchers, partly to keep the lines clear. There are peculiar difficulties in Ganjam as the growth is so luxuriant that lines will very rapidly get overgrown, unless kept carefully cleared. However, although the extra establishment was perhaps justified while the Forest department was getting settled in the district, it must be very much diminished during the current year, and until Ganjam pays its way better.

Godávari.—Demarcation is very efficiently carried out by broad straight lines with lasting cairns and posts. One hundred and forty-one miles of preliminary demarcation were made at a cost of Rs. 757, and 122 miles of final demarcation at a cost of Rs. 1,432; the former is little over Rs. 5 a mile; the latter a little under Rs. 12 a mile. One and-a-half miles of fencing cost Rs. 46, and 115 pillars cost Rs. 83—Total cost Rs. 2,322.

Kistna.—Very good progress was made. Two hundred and six miles of demarcation were cut and 892 boundary marks erected at a cost of Rs. 4,827, about Rs. 23·4 a mile. Part of the work was very expensive because much prickly-pear had to be removed. The demarcation is by cairns in the inland taluks and by posts in the coast taluks.

Nellore.—Three hundred and seventy-five miles of demarcation were done, particular progress being made in the Kávali range under ranger R. Vencatesa Mudaliar. The average expenditure was Rs. 7·8 but deducting the value of trees sold from the line, the nett cost was only a little over Rs. 5 a mile. The demarcation included the completion of the boundaries of six reserves, the demarcation of all the casuarina plantations and part of Sríharikót, with posts surrounded by mounds of earth.

Cuddapah.—The cost in this district is still exceptionally high; but it has been much reduced by Mr. Lodge. The cairns were rather large, and too numerous; but this does not altogether account for the cost, and it is to be suspected that there was some peculation among the subordinates, which Mr. Higgens with his hands latterly full of settlement work could not check by going into the details of accounts. In Badvél particularly the rates at the beginning of the year were excessive. There is a great difficulty in this district, however, at certain seasons in getting labor. Progress during the year was good. 176½ miles were cut and 2,747 cairns erected at a cost of Rs. 4,858. Supposing a cairn to cost 12 annas, the rate of clearing per mile would be Rs. 16, which is still high. Besides this an aloe fence was raised round the Reddipalle plantation at a cost of Rs. 414 for 2½ miles.

Kurnool.—In Cumbum, 60 miles of demarcation were done at a cost of only Rs. 135, the demarcation being with posts. In Sirvel, 19 miles of demarcation were done at a cost of only Rs. 312. In Márkápur, 96 miles of demarcation were done at a cost of only Rs. 300. The cost is exceptionally low, being at an average only Rs. 4 odd a mile. It may be found necessary to supplement this demarcation with cairns, and most probably this will be necessary, but the progress is good. The demarcation of the Nallamalai forests is now practically complete with the reservation that part of this is of a preliminary nature.

In last year's annual report, the Acting Conservator stated by mistake that the Veligonda boundary was complete. That of the southern Veligonda was complete, leaving the boundaries of northern and western Veligondas to be finished. These have been completed all but 15 miles.

Bellary.—A road which is to form part of a boundary was increased by 1½ miles during the year. One hundred and eighteen miles of ordinary demarcation with posts was done at a cost of Rs. 841, rather more than Rs. 7 a mile.

Anantapur.—In Penukonda, Hindupur and Dharmavaram taluks, the preliminary demarcation of all the proposed reserves was completed. In Anantapur and Tadpatri taluks, the preliminary demarcation of Kudair and Upparapalle was also done.

The pig wall round Kottakota was continued for 2½ miles at the rate of Rs. 96 a mile. The pig wall round Guttur (West) reserve was continued for 9½ miles, but payment has not been made as the work is reported to be very badly done, and only two miles were ordered by the District Forest-officer. The Acting Conservator has unfortunately not seen the work, but is inclined to think that this wall was a great mistake. As so much work had been done, and money had been entered in the budget, he did not interfere with the work, beyond stipulating that work should be done only according to the sanctioned allotment. Mr. Sweet was so ill that he did not superintend the work personally, and the forester allowed four times the stipulated amount of work to be done, and done so badly that it is practically useless. It is presumed that the object was utterly to exclude cattle for some particular reasons, and it is obvious that this work is useless unless it is thoroughly well done. All work is now stopped, and inquiries are being made into the responsibility for the wretched fiasco of this year's operations. The Acting Conservator intends to send a report after personal inspection.

Nilgiris.—In this district the total cost incurred on demarcation during the year was Rs. 2,210, though only Rs. 1,971 was adjusted during the year.

This sum of Rs. 2,210 includes an item of Rs. 190 for repair of old demarcation. There were 125 miles of new demarcation during the year, with posts surrounded by mounds; the cost per mile is therefore Rs. 16, which is not excessive if all the work is well carried out. The work of the year included the demarcation of Kundahs, Thiashola, Mekkeru, and Hiriashigie reserves in the Melúr and Kundah ranges, eight proposed reserves in Jakkathala and Yeddapalli in Coonoor range, and 31 proposed reserves in Kótagiri range.

A statement (A) of work completed is given in the Appendix. There are not sufficient data to give reliable statistics of the work which remains to be done.

CHAPTER III.

Surveys, Working Plans and Plans of Operations.

16. *Ganjam.*—Mr. Lushington when going on leave made out a rough preliminary working plan for part of these forests, but unfortunately Mr. Toussaint did not attempt to act up to it under the mistaken idea that all operations must await the completion of the settlement. A fresh plan is now being tried by Mr. Lushington, the main points being:—

(1) Complete rest for reserves overworked under the old license system, and upkeep of forests on important slopes.

(2) Coppice under standards in reserves where trees have been much hacked about.

(3) Selection fellings in the rest of the reserves, compartment by compartment.

The object at present is to make a commencement at getting a semblance of order into the forest working by a rough classification.

Kistna.—Little has been done under this head on account of settlement work. The suggestions made by the Conservator for the preliminary working of several blocks will now have to be modified in all probability, for the idea underlying those suggestions was that these blocks were to be worked for fuel. It has, however, been given out that the section of the Railway which passes through the district will be worked with Singereni coal. Some of the blocks should therefore probably be treated for the growth of timber.

The fire-protected block of Kondapalli was surveyed by Mr. Hearsey, and plotted on a 4-inch scale. The work was well done. Mr. Hearsey was taken on duty in Kistna, as his studies at Dehra Dún were interrupted for a year on account of cholera.

Nellore.—The working plans drawn up for the plantations will have to be slightly altered on account of the ravages of the cyclone two years ago. The operations for the year were suspended in favor of clearing out all the remains of trees blown down or injured at that time. The attacks of caterpillers this year have been very bad; and a year's planting is lost in one or more plantations.

Cuddapah.—Part of the information necessary for a working plan of the end of the Lankamalai reserve was collected. The yield of this low jungle was found to be 4 tons of fire-wood over 2″ in diameter, and 2 tons of branch-wood under 2″ to the acre.

In Balapalle working circle, compartments 1 (*b*) and 5 (*a*) were cut.

The result was—

Compartment.	Area.	Total acreage.	Engine fuel in tons.	Small fuel tons.	Total tons.	Amount per acre in tons.
	ACS.					
1 (*b*)	14¾	43¼	508¾	385¼	894	20·6
5 (*a*)	28½					

The result of the fellings for six years was—

	ACS.	TONS.	PER ACRE.
1882-83	50	562	11¼
1883-84	55	907	16⅓
1884-85	46⅓	1,002	21½
1885-86	58	915	16
1886-87	57	568	10
1887-88	43¼	894	20⅓

Bellary.—The preliminary working plan of Sandúr has been slightly deviated from, and requires revision. The result of the thinning operations was—

—	Compartment.	Area.	Yield.
		ACS.	TONS.
Ramandrúg	12	699	643
North-eastern Range	2 and 3	2,042	1,390
Done Malai	3	754	899
		3,495	2,932

The work was not well done, as the personal superintendence of the District Forest-officer was necessary for such an operation, until his subordinates were properly trained. Too much was cleared out in many places, for the forest is very light.

In Kurnool, Godávari and Anantapur there were no working plans.

Nilgiris.—The preliminary working plans made out by Mr. Gamble were worked upon with slight variations, and were found very useful. Modifications are necessary because Government have ordered the strict reservation of sholas. The details of operations during the year are shown in a statement in the Appendix (B).

17. *Surveys.*—There were no survey operations in the circle.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

18. (*a*) ESTABLISHMENTS, RANGES AND BEATS—*I. Superior staff.*—This consisted during the year of—

One Conservator ... ... { Mr. A. W. Peet (acting). / Mr. J. S. Gamble (on furlough).

Four Deputy Conservators—

Mr. Higgens (C.S.) ... ... Cuddapah (on furlough).
„ Vincent ... ... Nellore do.
„ E. D. M. Hooper ... ... Kurnool.
Colonel R. S. Jago ... ... Nilgiris (on furlough).

Seven Assistant Conservators—

Mr. Brougham	Nellore.
„ A. W. Lushington	Ganjam.
„ Homfray	Kistna.
„ Battie	Godávari and Vizagapatam.
„ Lodge	Cuddapah.
„ Sweet	Bellary.
„ P. M. Lushington	Nílgiris.

The only change of any note is that Colonel R. S. Jago retired from the service from the 21st December 1887.

Mr. A. W. Lushington went on furlough for six months in May 1887 and returned within the period of his leave.

Mr. Sweet obtained three months' privilege leave on medical certificate from the 29th February and went to Europe. He has since commuted the leave, obtaining six months' sick leave.

Mr. P. M. Lushington was temporarily in charge of the Nílgiri district.

19. *II. Subordinate staff.*—The staff was as follows at the end of the year :—

Districts.	Clerks.	Peons.	Sub-Assistants.	Rangers.	Foresters.	Forest guards.	Total.
Conservator's office	325	56	..	..	..	..	381
Ganjam	70	58	..	200	55	122	505
Vizagapatam	35	46	..	50	40	103	274
Godávari	70	58	150	110	130	224	742
Kistna	75	70	200	150	155	292	942
Nellore	100	64	..	130	150	330	774
Cuddapah	100	88	150	315	170	428	1,251
Kurnool	75	90	..	180	135	206	686
Bellary	45	46	..	50	100	240	481
Anantapur	50	46	..	50	100	252	498
Nílgiris	110	81	150	130	155	244	870
Forest school	..	..	200	50	80	..	330
Total ..	1,055	703	850	1,415	1,270	2,441	7,734

Ganjam.—Some alterations were made during the year in the distribution of the establishment. The head-quarters of the District Forest-officer have been transferred from Russellkonda to Chatrapur, the head-quarters of the Collector, mainly to facilitate office work.

At the beginning of the year there were four ranges in Goomsúr, viz., Kukkuluba, Mojjagodo, Suradá and Kurcholi. The establishment had been strengthened by two temporary foresters, and as there were other four foresters, it was held advisable to make the ranges rather smaller, to put each range under a forester, and employ two rangers each to take a sort of sub-divisional charge of a group of three foresters' charges. The four ranges were therefore sub-divided into—

First group called *Eastern* Goomsur sub-division (under a ranger)—

Range.	Area.	Reserved forests and lands.	Agency.
	SQ. MILES.	SQ. MILES.	
Gayagonda (temporary forester) ..	165	123	..
Jaggernadprasad (forester)	210	75	..
Buguda (temporary forester)	325	89	..
Total ..	700	287	..

Second group called *Western* Goomsur sub-division (under a ranger)—

Range.	Area.	Reserved forests and lands.	Agency.
	SQ. MILES.	SQ. MILES.	SQ. MILES.
Pondakhol (temporary forester) ..	220	50	104
Boroborosinghi (forester)	240	103	..
Chokapad (temporary forester) ..	188	90	60
Total ..	648	243	164

The rest of district is thus provided for—

Range.	Area.	Reserved forests and lands.	Agency.
	SQ. MILES.	SQ. MILES.	SQ. MILES.
Berhampore (under a ranger) ..	561	24	40

This should really be a sub-division.

Chicacole is under the direct supervision of the District Forest-officer, for there is no Range officer available.

The establishment is very weak in forest guards, only 17 being entertained. However, there was rather too large a temporary establishment. The District Forest-officer really wants some men on an intermediate scale, drawing Rs. 15 and upwards, for he believes that a forest guard on Rs. 6 or 7 in that district is useless. The full subordinate staff was—

Rangers	3	Forest guards	17
Foresters	2	Clerks	3
(Temporary foresters) ...	4	Peons (including range peons).	9

Vizagapatam.—There was no separate officer available for this district, and it was put under the charge of the District Forest-officer of Godávari. This was hardly more than nominal, for he had as much work as he could do in his own district. A temporary arrangement was therefore made at the close of the year for a division of the charge of Vizagapatam, the Ganjam officer taking Pálkonda and the Godávari officer taking Golgonda and Sarvasiddhi taluks. It is hoped that something may be made of this district under this arrangement. The full subordinate staff was—

Ranger	1	Clerks	2
Foresters	2	Peons	3
Forest guards	15		

Godávari.—The subordinate staff was—

Sub-Assistant in Bhadráchalam.	1	Forest guards	32
Rangers	2	Office establishment { Clerks ...	3
Foresters	6	Office establishment { Peons ... (including range peons).	9

The average area of a range is 588 square miles. As a general supervision is at present necessary, there were seven permit-issuing gumastahs on a temporary establishment.

The regular staff have, as much as they can do, been watching the main timber trade, for the Godávari river is used for an enormous traffic from above the district. It was therefore a fresh complication when petty proprietors in Bhadráchalam commenced timber operations, and certain rules to facilitate a check over these operations are before Government.

Kistna.—The subordinate staff was—

Probationary Sub-Assistant ..	1	Forest guards	44
Rangers	2	Clerks	3
Foresters	6	Peons (including range peons)...	11

Nellore.—The subordinate staff was—

Rangers	2	Clerks	4
Foresters	5	Peons (including range peons)...	10
Guards	46		

Cuddapah.—For this district unfortunately no Sub-divisional officer could be spared after Mr. Toussaint's transfer to Ganjam to act as District Forest-officer there.

The full subordinate staff was—

Rangers	4	Clerks	4
Foresters	6	Peons (including range peons)...	14
Guards	63		

The area of the ranges is some 8,607 square miles, that of the forests some 2,000 square miles, so that the average beat of a forest guard is 136 square miles of country and 32 square miles of forest land. The staff is here, as elsewhere, inadequate.

Kurnool.—The District Forest-officer complains of the extraordinary number of changes in his establishment as retarding work. These changes were partly due to the department being short-handed, which necessitated the removal of Mr. Lushington, the Sub-divisional officer, and partly to much sickness occurring during the year.

The subordinate staff was—

Rangers	3	Peons (including range peons and supernumerary Gazetted officers' peons)	11
Foresters	5		
Forest guards	30		
Clerks	3		

Bellary.—The subordinate staff was—

Ranger	1	Clerks	2
Foresters	4	Peons (including range peons)...	7
Forest guards	34		

Anantapur.—The subordinate staff was—

Ranger	1	Clerks	2
Foresters	4	Peons (including range peons)...	7
Forest guards	37		

Nilgiris—

Rangers	2	Clerks	3
Foresters	6	Temporary clerk	1
Forest guards	30	Peons (including range peons)...	6

(*b*) *General Protection and Breaches of Forest Rules.*

20. Form No. 63 shows the prosecutions for breach of forest rules. The number of cases filed during the year was 1,249, and adding 103, which were pending at the close of the year, the total number prosecuted was 1,352. In these, convictions were obtained in 888 and acquittals in 339. There are 125 still pending.

The percentage of convictions was—

Ganjam	58·9	There are no cases of sufficient importance to quote in this report.
Vizagapatam	66·5	
Godávari	62·4	
Kistna	66·0	
Nellore	44·4	
Cuddapah	83·4	
Kurnool	66·9	
Bellary	52·6	
Anantapur	54·0	
Nilgiris	60·6	
On the whole	61·6	

The number of cases compounded during the year was 206, the persons implicated being 655, the numbers last year being respectively 240 and 250. In one case the accused was acquitted. This list is exclusive of the number of cases prosecuted as given above, so that the total number of cases dealt with during the year was 1,558. Most of the cases occurred in Kistna, Cuddapah and Nellore.

The amount realised was 1,148 against Rs. 887-12-0 last year.

(*c*) *Forest fires and fire-protecti n.*

21. Form No. 62 gives the area of forests protected from fire during the year.

In *Ganjam* it is acknowledged that the record of fires was kept badly during the year, and that there were probably unreported fires in outlying localities. This slackness is attributed to changes of staff at critical periods, and the fact that on no single occasion has a village head reported the occurrence of a fire (see section 23 of the Forest Act). The matter of record of fires is being now properly taken in hand. In Berhampore, there were eight fires in all, two of which were rather extensive. The extreme drought from November to March rendered fire-protection difficult here.

The Goomsur returns are considered so untrustworthy that the forest has not been included in the area given in statement No. 62 as fire-protected. The returns show only two small fires. There was a considerable staff of watchers here.

Godávari.—Of the 12 blocks containing 115 square miles protected during the year, there were three blocks containing 45 square miles under ordinary protection, and the rest were under special fire-watchers. Owing to the exceptional drought some fires occurred before the staff was regularly organised, but the damage done was not so great as if the fires had occurred later. The arrangements made in Bhadrá-chalam have not been a success, and the Koyas have not come forward to act as fire-watchers. It will be very long before much headway can be made against the system of firing forests in this district. The Acting Conservator was struck with the systematic and universal firing in Juddengy and neighbouring Agency tracts; and although it is proposed to bring these tracts under the Forest Act, any steps against preventing fires will have to be made very slowly, and by taking up only small pieces of forest at first, and trying to get the people with instead of against us.

Kistna.—No fires occurred in the protected areas, which are the same as those protected last year.

The only forest not liable to be burnt are the Mada forests at the mouth of the Kistna river, about 60 square miles.

Of the remaining unprotected forests, the District Forest-officer estimates that fires occurred over about 10 per cent. of the area.

Nellore.—According to reports, almost all the area in the plains, estimated at 280 square miles, escaped without fire. The area of the Government portion of the Veligondas, estimated at 110 square miles, was protected by a staff of fire-patrols at the cost of Rs. 376; efforts being made at prevention of wilful damage, rather than any systematic protection. The areas burnt were—

2 square miles in the Kanigiri range.
3 do. do. Rápúr do.
2½ do. do. Udayagiri do.

under 7 per cent. of the area protected.

Cuddapah.—Two hundred and fourteen square miles were protected by fire lines and 101 square miles by watchers only.

Only 10 per cent. of the former was burnt and none of the latter. The results of protection must be held to be very successful, as it is considered that almost the whole of the unprotected forest in the district was burnt over.

Kurnool.—An attempt was made at protecting only a small area and training the staff thoroughly in the principles of fire-protections. For this purpose a block of 4,500 acres was chosen; but unfortunately by the carelessness of the ranger fire was allowed to enter even this block. Mr. Hooper's estimate of the amount of forest which escaped fire in the unprotected areas is confessedly on insufficient data; but he takes the view that only about 15 per cent. escaped fire, that is, about 140 square miles out of 1,600.

Bellary.—Attempted protection of 103 square miles. This district has been specially singled out for real attention to the subject of protection and the Sandur forests were protected for some years till unfortunately last year broke the record. This year only half square mile was burnt.

Protection cost Rs. 3,140 including Rs. 1,037 spent at the end of the previous fire season. The amount spent during this fire season is only at the rate of 6 pies for each acre protected. The exclusion of fire this year is very satisfactory. The estimate made for the 170 odd square miles of unprotected reserve was that about 13 per cent. were burnt. The fires occured in Bellary, Bundri, Harada, Somalapur and Hospet reserves.

Anantapur.—Four fires took place in fire-protected areas just after the close of the official year 1886-87, namely, 1,000 acres in Kottakota, 10 acres in Amagonda-polliem, 4 acres in Somarazmalai and 20 acres in Khojepalle.

Fire-protection during the current fire season was more successful, as only 80 acres were burnt in Kottakota. The estimate, that only 2,000 acres were burnt in unprotected forests, is probably very much below the mark.

Nilgiris.—There were no fires in the plantations with the exception of a small one in Arambi which injured the young cryptomerias over an extent of some two

acres. There were, however, extensive fires on the grass lands of the Kundahs which were unprotected, these fires being for the most part made deliberately by the Todas. In Mudumalai, Móyár and Benne there were very many fires, which in some cases crossed the attempts at fire lines, getting even into the Mudumalai teak plantations: This part of the forest charge wants most systematic supervision by a District Forest-officer in person; and the fires may be controlled another season by more direct control and instruction of subordinates.

(d) Grazing.

22. In *Ganjam* grazing was stopped in reserved lands. The question of allowing it on payment of fees is now under consideration.

In *Godáveri* grazing dues were collected only in the Cocanada coast forest, the right of grazing being sold by auction for Rs. 900.

In the unsettled villages of the district which are now rented out yearly, the rent includes tax on grazing and the usufruct of trees on ashalminha lands. Arrangements are now being made to separate these items from land revenue and to credit them to forests.

In *Kistna* grazing proceeds form a very large proportion of the revenue. The rights of grazing were sold as usual by auction and fetched Rs. 38,711. In other districts also it is believed that a very considerable revenue should accrue to Government under this head. The Kondapalle fire-protected block was closed against grazing, but large quantities of excellent grass were sold on head-load permits.

In *Nellore* the kanchas (pasture lands) were taken in hand for the first time by the Forest Department; Rs. 12,784 were realised as rent, and it is expected that this revenue will increase.

In *Cuddapah* grazing was allowed free on all reserved lands, and half fees were collected in some reserved forests, the proceeds being Rs. 1,227. This source of income should be cautiously but surely increased.

In *Kurnool* a new departure was made, and Mr. Hooper deserves credit for working out what promises to be a successful method of collecting dues under this head. Formerly there was leased out yearly or half-yearly the hill tract where the Nallamalai forests widen out in the Márkápur and Nandikotkúr taluks towards the Kistna river. When the maximum sanctioned charge was 2 annas a head, the yearly receipts averaged only Rs. 700, when the charge was 4 annas they realised about Rs. 1,200. During the year under report the system was introduced of issuing permits direct to the cattle-owners. A large number of permits were printed and a commission of $6\frac{1}{4}$ per cent. was given to any one who brought a list of cattle and the money for the permits. Only one anna a head for the year was charged for each animal, yet the receipts were Rs. 4,888, of which Rs. 2,700 were realised in Márkápur taluk alone, the cattle grazed being—

Buffaloes	164
Cows	14,303
Bulls	2,561
Bullocks	11,593
Goats	23,362
Sheep	20,676
Total	72,659

It is proposed to raise the rates one anna this year, and notice to that effect was given at the commencement of the proceedings. The Márkápur ryots paid the dues with alacrity, and were pleased to find that forest settlement did not necessarily mean the exclusion of their cattle from the forests; on the other hand, the Sirvel and Nandyál ryots have come forward very little, partly owing to the fact that a very large area of forest has been left outside the boundaries, and partly because they prefer grazing on the more open Yerramalais.

In *Bellary* free grazing was allowed in unreserved lands, and grazing on fees in five reserves; the fees produced only Rs. 262-6-10. Sandúr leased forest was closed against grazing, but grass-cutting was permitted on head-load permit, the returns being Rs. 67.

In *Anantapur* grazing and removal of grass were allowed free in all reserved lands except those under special fire-protection. In Muchukota 25,945 head-loads of grass were removed. Some revenue should be made under this head during the current year.

The grass silo in Khojjepalle was considered a success.

In *Nilgiris* free grazing is allowed to Todas in all the forests not altogether closed against grazing. It was found that 3,770 Toda buffaloes were grazed under this permission. Some abuses were mentioned, one of which was that Todas tried to take in Badaga buffaloes in some cases, to enable the latter to enter without payment of fees. Some damage to boundary posts is reported from another range, but the most serious question is the systematic firing of grass lands by the Todas without any due precautions. This must be watched next fire season. The total amount of revenue received from fees was only Rs. 474. There is not the smallest doubt that a very large revenue should be realised from this district; for instance, Mudumalai and Benne are largely grazed by local and Mysore herds, which should certainly pay if admitted into the forest.

(*e*) *Natural Reproduction.*

23. *Ganjam.*—It is noted that there is already a marked improvement from conservancy visible on the Mohiri Hills. The reproduction of the Sal forests in this district is wonderfully rapid.

Godávari.—Natural reproduction, especially of Yepi (*Hardwickia binata*), in the plains of Bhadráchalam is generally good notwithstanding fires and grazing. There is no teak. In the lower taluks, the forest is so poor that grazing must be limited, and special attention paid to fire protection.

Kistna.—Natural reproduction is very bad in the open forests. This is the reverse of the picture which shows immunity from fire and a large balance from grazing dues. Immunity from fires often follows as a natural result of excessive grazing, especially where the growth of grass is not naturally very luxuriant; but bad reproduction also follows as a natural result both from the ground being trodden so hard that seeds will not penetrate and also from the active mischief caused chiefly by goats. The District Forest-officer refers chiefly to the latter, and there is no doubt that they must be restricted to certain fixed localities.

In the Kondapalle block which is closed against grazing, there is a show of reproduction by seed. The Mada (*Avicennia officinalis*) reproduces itself well in the coast forests.

Nellore.—There are no remarks under this head.

Cuddapah.—Coppice in Balapalle working circle is fair, except in compartment 6 (*b*) which has failed because cut too long before the rains. The result has been a dense growth of strobilanthes.

Kurnool.—Reproduction on the western side of the Nallamalais is very fairly rapid, and coppice growth is readily obtained. Much damage has, however, been noticed from goats, and even more from goat herds and cattle-drivers topping over trees for the animal to browze upon. The District Forest-officer gives the following fact: "He has witnessed the destruction of a fine growth of straight seedlings of *Pterocarpus marsupium* (Vengai) by this means, the damage being done over an area of from two to three hundred acres in one day's grazing of a Brinjari's herd in the hot weather when grass was scarce."

The forests of Cumbum and Márkápur (Eastern Nallamalais) do not reproduce themselves rapidly and require careful treatment. On the North and South Veligondas there is a fair prospect of reproduction, though in a less degree than on the Western Nallamalais. This is also the case in the Uyyalavada block, especially towards Cuddapah district. On the Yerramalais it requires the greatest care to provide for a regrowth, and particular steps must be taken to prevent the universal habit of pollarding Yepi (*Hardwickia binata*) and stripping the bark of the sprouts for fibre. Some arrangements have been made for localizing this industry.

Bellary.—There are improvements already visible in parts of the Sandúr leased forests and in the Sunkadakal reserve.

Anantapur.—The statement is repeated that, in Muchukota, seedlings of Yepi (*Hardwickia binata*) spring up during the wet season only to die down during the hot.

The Acting Conservator intends suggesting that part of this forest be absolutely reserved this year both from cattle-grazing and also from grass-cutting. In Kottakota seedlings especially of *Chloroxylon swietenia* (Satinwood) are springing up well.

Nílgiris.—In the Ootacamund range the natural reproduction of gums by coppice is very successful in Aramby, Cairn Hill and Baikie, but less so in the exposed plantations known as Governor's shola and Andy. The latter is a mixed plantation of blue-gum and acacia, chiefly melanoxylon. It is noted that the former shoots far more rapidly than the latter.

In Aramby there is a sprinkling of self-sown seedlings of blue-gum in block II, compartment 4. Seedlings are also found in Governor's shola. Two thousand self-sown seedlings were taken from Aramby block II and planted in block IV, and similarly in Governor's shola vacancies were filled up.

In the Coonoor range coppice has been very successful, particularly in the Ghât reserve. Mr. Gamble's experiments on treating sholas as coppice under standard has been very successful here. In Old Forest blue-gum plantation, it is noted that the growth of self-sown seedlings is more rapid than that of artificially planted trees.

In the Mudumalai range, the natural reproduction in the compartments cut is coming on fairly. Some heavy thinnings took place in Longwood shola, Kótagiri, before the order to stop operations in sholas, and the saplings which were left are coming on well.

(*f*) *Artificial Reproduction.*

24. *Ganjam.*—The seeds sown broadcast in the Berhampore fuel and fodder reserves have almost entirely failed. Some seedlings, including some of Sissu (*Dalbergia*) and mahogany, kindly given by Mr. Weld, will be planted out during the rains. In the Mojjagodo teak plantation there are 192 trees and 900 seedlings, but it is a doubtful experiment. Teak will never be able to look after itself in a sâl forest.

Godávari.—One of the two plantations of casuarina is now a reserved forest and the other is under settlement. Additions have been made to their areas, but planting operations have been postponed.

Kistna.—10 acres of casuarina were planted in the Gopavanipalem and 10 acres of miscellaneous trees in the Weld experimental garden. In the Bápatla taluk small additions were made by the gardeners in charge. Two plantations of 27 acres were sold and corrections of areas reduced the total acreage of plantations by 44 acres.

The Weld experimental garden is not a success, and the Acting Conservator recommends that the area be much reduced. It is useful to have a few experiments, but they should be on a very restricted scale.

Nellore.—The yield and cost of plantations is shewn in a statement in the Appendix C.

There has, however, been grave cause of anxiety about these plantations; for they were attacked by insects to such an extent that in some places the young plants were nearly exterminated. In the Dugarázpatnam plantation, 50,000 seedlings were planted out over nearly 100 acres. In a very short time, 14,200 casualties occurred, which were replaced, and efforts were made to preserve the trees with lime, tobacco, phenyle, tar, &c., but to no purpose. Replanting was eventually stopped, and the ravages in all accounted for 53,000 seedlings. Private plantations at Dugarázpatnam suffered equally with those of Government. The damage was done by some insect which bit through the stem of the seedling, severing it completely off. The District Forest-officer sent some caterpillars which he named as the cause of the mischief, but it is doubtful whether the information furnished privately by Mr. J. Steavenson, Honorary Secretary, Agri-Horticultural Society, was not more correct—that the mischief was done by mole crickets.

At Kottapatam, the ravages were not so great, but 2,558 young trees were killed out of 25,000 planted.

This is not the place to discuss theories in detail; but it is to be feared that the underlying moral is that land will not go on growing casuarina indefinitely. Whether the constituents in the soil necessary for the growth of a particular tree become exhausted, or whether the seed of naturalised trees becomes gradually inferior, or whether the enemies of the tree become gradually stronger through the removal of the mixed cover suitable to their enemies,—the birds,—the result is seen on all sides that a crop planted and replanted ends in failure. Similar facts have been seen with Scots fir in Alsace, larch at Dunkeld, and coffee in this country.

In Chandrasikuppam plantation there was no fresh planting, as the soil seems unsuited to casuarina. In Tamminapatnam, 20,000 seedlings were planted round the wells, and all are doing well.

Cuddapah.—The mahogany plantations at Pullagundalnala is not a success. About 600 seedlings survive, but are not likely to become timber trees. Some iron-wood and blackwood seedlings have been put down.

At Kamalápuram the *Adenanthera pavonina* seedlings which were planted out two years ago have nearly all died. In this reserve 30,000 palmyra seeds were planted and have nearly all germinated.

In Santhakova 714 teak seedlings were planted out, and in compartment 6 (*b*) of Balapalle 2,543 seedlings of *Hardwickia binata*, *Chloroxylon swietenia*, *Acrocarpus fraxinifolius*, *Acacia melanoxylon*, and others were planted out.

Kurnool.—There is no artificial reproduction.

Bellary.—There is little to note.

Anantapur.—In Kottakota 1,000 palmyra seeds and two maunds of teak-seeds were sown and nearly all germinated, but many died during the hot weather.

Nílgiris.—New planting is given under Experiments and Exotics in the Appendix The list of plantations is shown in Form No. 60.

In Ootacamund Range in block I of Aramby, 1,200 shola tree plants, chiefly *Michelia* and *Gordonia obtusa*, were planted up in vacancies in the shola and are doing well.

In block I of Cairn Hill vacancies in the shola were filled up with *Michelia* and *Eugenia*, the former species being a success, the latter a failure. In block XII one and-a-half acres of grass land was planted as an experiment with shola trees, but the result is not satisfactory.

In the Kullar range the teak plants put down in block II, compartment 2, during the year are promising well. The teak plants are mixed with iron-wood and vengai. The latter (*Pterocarpus*) promises well, but the iron-wood grows very slowly, and there are 30 per cent. of failures.

In compartments 6, 7, 8, 9 and 10, 3,318 teak plants have been put down and are growing very well.

In the Melúr Range, 472 plants of shola trees were put down to fill up blanks in Devashola. There are 25 per cent. of failures, but the rest are doing well, particularly *Eugenia arnottiana*, *Gordonia obtusa* and *Ternströmia japonica.*

Work of Improvement.

25. The only districts on which there is anything to remark are—

Nellore.—The plantations and the Sríharikót reserve presented a most ragged and unkempt appearance owing to the fact that only partial efforts had been made to get out all the wood damaged by the cyclone two years before. The Acting Conservator therefore suggested that the regular plan of operations should be temporarily abandoned, and serious efforts made to clear out this storm wood. The result was that the following quantities were brought out:—

Casuarina wood.

	TONS.
Dugarázpatnam	3,909
Kottapatam	
Tamminapatam	

Jungle wood.

	TONS.
Sríharikót—	
Matchalu	1,608½
Chinnamottalu	7¼
Rasi	588
Sannam	481
Thopudu	12¼
Sulli bundles	286
Total ...	2,983

All the casuarina trees which had been broken over by the storm were cut down within about 3 feet of the ground in the attempts to cause reproduction by the system of half coppice, half-pollarding, which alone suits the casaurina. The style of work in the plantations was decidedly slovenly, and personal instructions were given to the rangers.

Cuddapah—where a small amount of creeper cutting was conducted.

Kurnool.—An attempt was made at collecting statistics of yield at Velgode, with the result that the yield was found to be 7 tons an acre. The forest is of inferior growth there, but the experiment was made to test the possibility of supplying some portion of the railway requirements from this direction.

In works of improvement should be classed an attempt at locating forest guards on the boundaries of the forests. This is an important step in the right direction. If this system could be carried out properly, conservancy would become a reality; but the pay and prospects of forest guards must be materially improved before they can become, as in France, the backbone of conservancy. What is wanted is a superior grade of what are now considered the uneducated classes. Highly educated men are not necessary, but we want intelligence and good physique. The experiment in Kurnool should be watched with interest of trying to induce forest guards to live with their families on the boundaries of the forests.

Bellary—where improvement thinnings were carried out in Sandúr leased forests; cost Rs. 1,705, yield 1,047 tons, of which 365 tons were sold for Rs. 1,682. The work is needed, but it was not well carried out, for the operations were not (as should have been the case if Mr. Sweet's health had been better) personally superintended by the District Forest-officer until his staff was properly trained.

Nílgiris.—In the Ootacamund range, 7 acres of Eucalyptus was weeded and thorny bushes removed; the cost was Rs. 35 and the value of the 289 head-loads which resulted from the operation was Rs. 18.

In Coonoor range, 22 acres in Lamb's Rock reserve (shola) were cleared of creepers and strobilanthus at a cost of Rs. 115. The produce was sold for Rs. 350, a net profit of Rs. 10½ an acre.

In Sim's Park reserve, 2 acres were thinned at Rs. 35½. This operation yielded produce which sold for Rs. 106, giving a net profit of over Rs. 35 an acre.

In the Ghát reserve compartment, No. 2, West block, was thinned at a cost of Rs. 109.

The receipts were Rs. 401½, giving a net profit of Rs. 292½.

In the Tiger Hill reserve, 4 acres were cleared of creepers. Cost was Rs. 20; proceeds Rs. 60.

In the Melúr range in Devashola, North block, strobilanthes and creepers were cut and cleared to the extent of 10 acres at a cost of Rs. 6 an acre. The dead and gnarled trees were converted into six lots of firewood, each of 100 cubic feet.

In the Mudumalai range thinning was very badly done for want of proper supervision.

In the Kullar range an improvement cutting was begun early last year in compartments Nos. 8, 9, 10, 4, 6 and 7 of block IV of the Kullar reserve. This cutting was intended to remove the creepers, to thin out the bamboos, and to clear away the dying and over-mature trees in order to encourage a young growth of the better species. The two former parts of the operation have been done, and the following is the

ACCOUNT CURRENT.

Expenditure.	RS.	A.	P.	*Receipts.*	RS.	A.	P.
Thinning 133¼ acres at Rs. 6-8-0, and 7 acres, at Rs. 7	848	10	0	Cost of 174 cart-loads of fuel at 12 annas.	130	8	0
For cutting 289 lots of fuel at Rs. 1-8-0 a lot (100 cubic feet).	433	8	0	6 Lots of fuel at Rs. 2-8-0 a lot.	15	0	0
For collecting 198 drag poles at Rs. 3 for 100	5	14	0	32,000 Small bamboos at 12 annas per 100.	240.	0	0
				49 Cart-loads of split bamboos at Rs. 2-8-0 a load.	122	8	0
				2,890 Head-loads of small bamboos at annas 1-6 per head-load.	270	15	0
				1,876 Head-loads split bamboos at 2 annas a load.	234	8	0.
				4,281 Head-loads of grass at 3 pies a head-load.	66	14	3
				81 Head-loads wild dates at 6 pies.	2	8	6
				Value of stock of 530 cart-loads of fuel at 8 annas.	265	0	0
				Total ...	1,347	13	9
				Deduct expenditure ...	1,288	0	0
Total ...	1,288	0	0	Balance ...	59	13	9

Charcoal.

26. The experiments commenced last year in Bandyshola with Morean's oven, were continued this year in the same reserve. The results have much improved lately, due to a better system of stacking the wood in the kiln. In the Appendix are two statements, D and E, one showing the results obtained with the oven, and the other with ordinary native kilns built at the same place and burnt at the same time.

Nurseries.

27. The nurseries are all small and unimportant, except those in Nellore and on the Nílgiris. Some of the latter are particularly well kept. Mention will be found in the Appendix under Experiment and Exotics of some of the trees sown in these nurseries.

Topes.

28. The list of topes is given in form No. 61. There are no particulars of interest to mention about these topes. They are for the most part leased out by the year for their minor products or as grazing-grounds. The areas in one or two instances have been corrected.

Communications and Buildings.

29. *Ganjam—Roads.*—Work was much delayed owing to Mr. Lushington's absence. A trace was cut in continuation of the Tilsingi-Chandorgiri road to Kukkuluba, and a branch was made to Hatiguda at an expenditure of Rs. 398. The bandy-track in Ramba was also improved. Out of Rs. 7,000 sanctioned only 1,091 was spent on roads.

Buildings.—Much useful work has been done in this direction. A building was built of stone in mud at Gullery, of wood at Chandorgiri, of brick in chunam at Jaggernadprasad, of brick in Gayagonda and of wood at Khariguda and Tilsingi. Four rest-sheds were built of wattle and daub on the Mohiri hills, four guards' houses at Gullery, Tilsingi, Bodangi and Jaggernadprasad.

The total expenditure was Rs. 3,751, including a sum of Rs. 924 spent on a range-house at Berhampore, which has already been passed separately by Government. There is an item of Rs. 724 for watchmen and sweepers which is much too high, and some other arrangements must be made during the current year. A map is attached showing the position of the roads and buildings; for it is held advisable to point out that preparations are now in a fair state of progress for having this district in thorough working order; for up to date the results financially have not been successful.

The plan of the Khariguda bungalow is a very good one for this district where planking is readily obtainable, a wooden bungalow built under a detached thatched roof; the whole bungalow with out-houses costing only about Rs. 400.

Godávari—Roads—About nine miles of work was completed on the roads in Bhádrachalam commenced last year, costing Rs. 735. Labor is scarce and bad, as the Koyas do not understand earth-work; and more than Rs. 1,200 of the budget allotment lapsed.

Buildings.—A rest-house at Rékapalle was completed at a cost of Rs. 327 and three others at Jiriguppa, Murmur and Ramasaram are in progress. Work is slow, as the contractors constantly go away on account of fever, and the workmen disperse. Some minor sheds were built. More than Rs. 1,500 of the budget allotment was unfortunately allowed to lapse.

Kistna.—Very little was done under these heads as the money was wanted for demarcation. A bridle-path was made in Kondapalli at a cost of Rs. 115. One or two minor buildings were erected and two small boats were built at a cost of Rs. 280, for subordinates in the Bandar and Bápatla ranges. The whole of the savings from other heads was utilised for demarcation and compensation and Rs. 2,800 besides.

Nellore.—There was little done under this heading. An additional room was added to the bungalow at Śríharikót.

Cuddapah—Roads.—Two hundred and eleven chains have been made on the Bodagala or Balapalli road, 94 chains on the road in North Seshachellum, 5 miles on the road in Ráyachóti, and 220 chains in the Lankamalai road.

Buildings—Mogilipenta bungalow was completed (Rs. 248); a range-house at Kódúr (Rs. 834); a range-house at Ráyachóti begun (Rs. 240); and inspection shed at Yerrapenta (Rs. 30); out-houses to range bungalow at Sidhout (Rs. 60); seven guards' huts (Rs. 127); seven tannadars' huts (Rs. 142). Repairs (Rs. 388).

Kurnool.—Roads proper have not been much attended to owing to repeated changes in the staff. The railway, however, has in an incidental way benefitted the forests, for their service road will remain a most useful road for forest purposes. Rs. 2,000 under this heading was allowed to lapse.

Buildings.—The Forest officer's head-quarters at Nandyál is at last finished and is well built, though the cost has been high owing to the fact that all prices have risen on account of the railway works; but the original estimate was too low in any case. The tanna at Velgode has been rebuilt in a healthier spot. Huts for forest guards have been built on the boundary lines. Six have been finished and four are in progress in Sirvel, and five have been built in Cumbum. Provision for Rs. 17,000 was made in the regular estimate; but unfortunately over Rs. 9,000 of this was not utilized and the reasons given in the report are not clear. The District Forest-officer's house at Nandyál was probably not finished soon enough to admit of full payment being made during the year.

Bellary.—The inspection shed at Donemallai is almost finished at last. The work has been very slow, and unsatisfactory.

Anantapur.—No work was done under these heads. Mr. Sweet was not well enough to look after the works himself, and it was considered preferable to delay work than entrust it to incompetent subordinates.

Nílgiris—Roads.—Half a mile of each of the new roads in Cairn Hill and Aramby were metalled at a cost of Rs. 859; an inspection path of 1,000 yards was cut in the Therma tope reserve at a cost of Rs. 38, and one in Aramby of 900 yards at a cost of Rs. 7. The whole of the road from Tippacadu to Benne was repaired (17 miles), and the road from Kakamulla (5 miles) was completed, but payment has not been adjusted as the ranger's rates were objected to as too high. The Wood-houselee road was extended, metalled and repaired during the year at a cost of Rs. 548. In old forest, three roads were repaired at a cost of Rs. 104, and a new road opened at a cost of Rs. 25, and various other repairs were done, and two new bridle-paths made in Teneriffe and Longwood.

Buildings.—Two forest guards' houses were built; various repairs were done, and materials were collected for a tool shed. Some money unfortunately lapsed because houses were not built at Mudumallai, as the site was condemned.

CHAPTER V.

YIELD AND WORKING.

Departmental Work—Form No. 68, &c.

30. *Form No.* 68 gives the trees felled by departmental agency during the year as 44,952 as follows:—

Teak	222
Sál	1,220
Blackwood	25
Satinwood	42
Ironwood	16
Maddi	60
Vengai	28
Casuarina	77
Palmyra	18
Eucalyptus	13,857
Acacia	609
Miscellaneous	644
Bamboos	28,134
Total ...	44,952

The above details are given to show the extent of demand. The teak, blackwood, eucalyptus and acacia trees were all cut in the Nílgiris, the sál in Ganjam, the casuarina in Kistna and Nellore, and the bamboos in Cuddapah and Bellary.

31. *Form No.* 69 shows the timber and other produce cut and collected by Government agency and its disposal either by sale or otherwise. The amount collected during the year was—

District.	Timber.	Fuel.	Bamboos.	Minor produce.	Sandalwood.
	TONS.	TONS.	TONS.	TONS.	TONS.
Ganjam ..	842¾	221	1½	¼	..
Godávari	36 (a) 392	(a) 150	(a) 84	..	..
Kistna ..	10	48	..	Mds. 4	..
Nellore ..	30	7,359	..	8	..
Cuddapah ..	2,171⅜	177¾	394	34½	..
Kurnool ..	..	191	..	Mds. 12¾	..
Bellary ..	82½	1,086	1,018	,, 15	..
Anantapur ..	9	1	..	2½	..
Nílgiris ..	220	7,111½	..	4¾	18½
Total ..	3,793⅝	16,345¼	1,497½	50¼	18½

(a) Driftwood.

Subjoined is a comparison of the yield for three years:—

—	1885-86.	1886-87.	1887-88.
	TONS.	TONS.	TONS.
Timber ..	1,726½	1,050½	3,793⅝
Fuel ..	15,900	24,042	16,345¼
Bamboos ..	92	450	1,497½
Minor produce ..	59½	160¼	50¼
Sandalwood ..	10	22¼	18½
Total ..	17,788	25,725	21,705⅛

32. *Form No.* 70 shows the receipt and disposal of timber, &c., in sale depôts. The amounts received and disposed of during the year come to—

District.	Timber.		Fuel.		Bamboos.		Minor produce.	
	Received.	Disposed of.	Received.	Disposed of.	Received.	Disposed of.	Received.	Disposed of.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Ganjam	759	747	..	7	1½	1½	..	1
Godávari	2	1	..	..	..	..	..	..
Kistna	..	..	11	11	..	..	..	..
Nellore	..	2	2,927	4,267	..	..	7¼	8
Cuddapah	2,080⅛	1,693	1⅓	1⅓	..	..	61¾	30¾
Kurnool	..	..	..	..	..	..	5¼	..
Bellary	..	..	11	..	..	..	..	..
Anantapur	¼	¼	..	..	..	..	2	2½
Nilgiris	81	79⅓	1,820	2,088	..	..	..	..
Total ..	2,922⅜	2,522¾	4,770⅓	6,374⅓	1½	1½	76¼	42¼

Subjoined is a statement of sales in depôts for three years:—

—	1885-86.		1886-87.		1887-88.	
	Receipts.	Disposals.	Receipts.	Disposals.	Receipts.	Disposals.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Timber	2,515	2,656	2,317	2,153	2,922⅜	2,522¾
Fuel	7,958	7,636	7,034	5,802	4,770⅓	6,374⅓
Bamboos	33	515	16	16	1½	1½
Minor produce	48	61½	579	513	76¼	42¼
Total ..	10,554	10,868½	9,946	8,484	7,770⅜	8,941

33. *Form No.* 71 shows the sales of timber—first from depôt, secondly from the forests directly, thirdly from drift, and fourthly from confiscated wood. The following abstract of form shows the sales of the year:—

Timber.

District.	Depôt.		Local.		Drift.		Confiscated wood.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	176½	5,287	47	660	..	..	..	155	223⅜	6,102
Vizagapatam	..	..	..	..	..	..	..	22	..	22
Godávari	1	29	2½	62	413	6,203	..	148	416½	6,442
Kistna	..	..	10	64	..	..	..	328	10	392
Nellore	2	11	15½	175	..	..	..	61	17½	247
Cuddapah	1,688½	29,336	25	434	..	..	..	847	1,713½	30,617
Kurnool	..	..	..	..	..	..	..	1,000	..	1,000
Bellary	..	..	82½	921	..	..	..	124	82½	1,045
Anantapur	¼	4	8½	118	..	..	..	45	8¾	167
Nilgiris	62½	654	31	585	..	..	..	7	93½	1,246
Total ..	1,930¾	35,321	222	3,019	413	6,203	..	2,737	2,565¾	47,280

Fuel.

District.	Depôt.		Local.		Drift.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	..	..	247½	193	..	..	247½	193
Godávari	..	..	..	..	150	348	150	348
Kistna	11	25	55	77	..	..	66	102
Nellore	4,262	29,028	278	1,281	..	..	4,540	30,309
Cuddapah	1½	7	..	..	..	..	1½	7
Kurnool	..	..	191	1,004	..	..	191	1,004
Bellary	..	..	404	1,742	..	..	404	1,742
Anantapur	..	..	1	3	..	..	1	3
Nilgiris	1,753½	12,044	2,862	9,131	..	..	4,615½	21,175
Total ..	6,028	41,104	4,038⅓	13,431	150	348	10,216½	54,883

Bamboos.

District.	Depôt.		Local.		Drift.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	1½	2	..	..	..	..	1½	2
Godávari	..	..	..	..	84	41	84	41
Cuddapah	..	..	388	255	..	..	388	255
Bellary	..	..	1,018	2,108	..	..	1,018	2,108
Total ..	1½	2	1,406	2,363	84	41	1,491½	2,406

Sandalwood.

	Sold locally,	
	TONS.	RS.
Nilgiris	17¼	5,804

Minor Produce.

District.	Depôt.		Local.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	..	..	¼	8	¼	8
Kistna	..	..	Mds. 4	3	Mds. 4	3
Nellore	8	1,605	Mds. ½	1,002	8	2,607
Cuddapah	17½	1,123	3	135	20½	* 1,258
Kurnool	..	..	Mds. 12¾	56	Mds. 12¾	56
Bellary	..	..	¼	47	¼	47
Anantapur	2½	351	¾	88	3¼	439
Nilgiris	..	..	½	502	½	502
Total ..	28	3,079	5¼	1,841	33¼	4,920

* Deposit.

The following statement shows a comparison of sales for three years :—

	1885-86.		1886-87.		1887-88.	
	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.
	TONS.	RS.	TONS.	RS.	TONS.	RS.
Timber	3,959½	75,819	2,550	44,226	2,565¾	47,280
Fuel	12,392	75,295	15,759½	78,837	10,216½	54,883
Bamboos	559	662	465	932	1,491½	2,406
Sandalwood	10	3,081	22	9,000	17¼	5,804
Minor produce	68¾	5,830	74½	3,872	33¼	4,920
Total ..	16,989	1,60,687	18,871	136,867	14,324¼	1,15,293

34. *Form No.* 73 *A* shows the difference in value between the stock on hand at the commencement and close of the year in—

District.	On hand at commencement of the year.	On hand at close of the year.	Difference.
	RS.	RS.	RS.
Ganjam	3,623	4,590	+ 967
Godavári	..	30	+ 30
Nellore	13,482	5,969	— 7,513
Cuddapah	1,378	9,550	+ 8,172
Kurnool	191	191	..
Bellary	..	69	+ 69
Anantapur	2,353	2,272	— 81
Nilgiris	4,064	1,680	— 2,384
Total ..	25,091	24,351	— 740

Ganjam.—The yield was most unsatisfactory. This was partly due to a change of officers at a critical time, for there was an interregnum between Mr. Lushington's departure and Mr. Toussaint's taking charge and the latter was ill for some time after arrival; and the favorable season for departmental operations was lost. Mr. Toussaint was also under the mistaken idea that work should await the conclusion of the settlement. Had there been a larger stock on hand it is quite possible that a market for sleepers might have been found, for demands are usually urgent. However, there was more than this to account for the bad financial results, for there was undoubted mismanagement with the stock on hand. The final depôt at Gopálpur was flooded with wood much of which was so inferior as not to have been worth carting. Much allowance must be made for Mr. Toussaint on the score of inexperience and ill health, for Ganjam was too large a district for him and he suffered much from fever, but his rangers must have been very much wanting in common sense to transport what they must have known to be worthless timber. Much of this timber was the remains of old timber felled on license, and was of a very inferior description. It was quite right to remove it from the forest, but it should have been sold for what it was worth at a depôt as near the forest as possible.

The demand for sleepers fell off during the year, but this was probably due to the fact that large supplies were made from Native zemindaries, and also from wood illicitly felled in the Agency tracts. A very large number of logs cut into lengths for sleepers were confiscated by the Acting Conservator and Mr. Lushington in the Pondakhol Mutta whence the export of timber had been forbidden by Government orders. Altogether only 2,373 sleepers were sold from the depôts and 209 logs of sál from the forests.

In form 69 a balance of 1,660 logs is shown containing 26,201 cubic feet. As this is quite misleading, the Acting Conservator advises that it be written off the accounts. The entry was made in accordance with a suggestion of Mr. Gamble that stock should be taken of all the logs lying about the Mojjagodo range, the remains of the old wasteful system of felling under license. These logs were measured as they lay in the forests, and an erroneous return was the consequence; for in the first place outside measurements were probably taken with no allowance for flaws or squaring, and in the second place most of the wood that is visible in the forests is so deteriorated as not to be worth carting. All that was worth taking out was removed by Messrs. Harden and Co., and it seems to the Acting Conservator doubtful if the stock account was accurately credited with the stock so removed. At any rate the wood should never have been entered into any returns till it was removed to some depôt, which is probably what Mr. Gamble intended. The accounts as they stand are utterly fictitious, and it is advised that a fresh start be made and this stock removed from the accounts.

In *Vizagapatam* there were no departmental fellings.

Godávari.—Work was delayed for want of elephants, which have now been purchased from the Commissariat at Secunderabad, four males.

Four-hundred logs were felled. 154 logs containing 1,716 cubic feet were brought to the bank of the river in Bhadráchalam. The floods carried away 89 cubic yards of fuel.

Drift timber.—In the lower taluks 3,550 pieces of drift timber were collected containing 20,658 cubic feet, including the cubic contents of a boat; also 7,518 cubic feet of fuel and 6,330 bamboos. The greater part of this wood is teak and comes from the Nizam's dominions or some portion of the Upper Godávari. The rewards and charges for collection were Rs. 2,388 and the sum realised was Rs. 8,980. The drift wood collected at Bhadráchalam is floated down to Rajahmundry for sale. It was not sold during the year.

Kistna.—Departmental work was limited to thinning in plantations.

Nellore.—Forty-seven casuarina trees and 200 poles were sold to the Executive Engineer of the Buckingham Canal. About 15,000 pegs and 9,000 stakes were sold to the Salt Department.

Fuel work at Sriharikót.—2,983 tons of junglewood were collected.

The market was glutted with storm wood, so that less wood was cut in Sríharikót than usual. The receipts at the Madras depôt were Rs. 30,645.

The following minor produce was collected :—

	MAUNDS.
Chay root (*Oldenlandia umbellata*)	95
Nux-vomica seeds (*Strychnos nux-vomica*)	165½
Sarsaparilla	224
Orchella (*Rocella montaigne*)	7
Isorara	27
Vishabuddhi (*Sida acuta*)	8
Kukkapala	9
Rattan bundles	183

Cuddapah.—In form 68 is entered 12,184 bamboos. The thinnings of 147 trees in the Kódúr plantation of red sanders is included under form 69. The rest of the red sanders posts shown in the latter form were collected from demarcation lines. The collection of redwood roots and red sanders posts was larger than usual, and there were 387 tons on hand at the end of the year. Prices were rather lower, being Rs. 17 and 17-8-0 a ton.

Kurnool.—Departmental work almost nothing.

Bellary.—Departmental operations were confined chiefly to thinnings in Sandúr.

Anantapur.—Departmental work almost nothing.

Nílgiris.—The budget under timber was very widely departed from. The deficiency in the operations is attributed to a variety of causes; the employment of a contractor for thinning operations in Mudumallai, who absconded with an advance, the condition of the elephants who were not in working order, change of officers in charge of the range; but the Acting Conservator believes that one of the main causes was an exaggerated budget estimate.

Haphazard felling and haphazard estimates have been the rule, and they have continued, although the working of the forest on a systematic method was ordered and inaugurated by Mr. Gamble, which is certain to lead to a much smaller revenue under this heading at first. The estimates probably escaped notice in the Central office. Even allowing, however, for the estimate having been exaggerated, the work in Mudumallai and Benne was very slack during the year.

Mr. Lushington pushed on work in February. The sales of firewood during the year from the plantations were good.

Removal by Purchasers.

35. *Form* 72 gives the sales direct from the forests. The following abstract gives the figures compared with last year of timber and other produce removed by purchasers :—

District.	1886-87. RS.	1887-88. RS.
Ganjam	16,619	15,384
Vizagapatam	3,958	5,279
Godávari	43,562	63,265
Kistna	76,116	76,524
Nellore	31,811	44,207
Cuddapah	1,12,090	1,12,232
Kurnool	77,426	75,614
Bellary	19,206	23,605
Anantapur	17,789	18,522
Nílgiris	10,501	9,272
Total	4,09,078	4,43,904

Ganjam.—There was a slight decrease.

Vizagapatam.—The removals by purchasers were of the value of Rs. 5,279 against Rs. 3,958 last year, which is satisfactory, as so little has hitherto been received from this district.

Godávari.—The receipts under this head were Rs. 63,265 against Rs. 43,562 last year. The higher charges and the fact that payment is now made by the cubic foot, instead of by the log, drove merchants away last year, but matters are now righting themselves. The improvement in minor produce is due partly to a better system in the lower taluks, but chiefly to the fact that the revenue realized from the usufruct of trees on ashalminha lands has been credited to forests.

Kistna.—Almost all the revenue on wood, &c., comes under this head. About Rs. 22,000 is collected on the permit system against an expenditure of Rs. 2,300. The rest of the revenue is from auction sales and trees on darkhast and porambóke lands. The decrease under minor produce is due to a short crop of soapnuts and tamarinds, and to the loss of Rs. 2,000 which used to be realized from the Chigurukota forest now given on patta (Board's Proceedings, Forest No. 422, of 22nd July 1887).

Nellore.—It has been held advisable to give rest to the areas which grow tangedu; and the right of collecting has been sold in the Kanigiri taluk alone for Rs. 4,600.

Cuddapah.—Much the same, as usual a decrease under timber being compensated for by an increase under grazing.

Kurnool.—There were 1,200 tons of timber removed less than last year owing to the introduction of a new system of sale of trees standing, a new system always puzzling the merchants at first. The firewood figures 13,315 tons were almost the same as those of last year. The export of tangedu has increased.

There is a very large trade in the fibre of the bark of *Hardwickia binata* (Yepi).

Minor produce was very deficient, as rights have been given to the Chentzus to gather and sell it where they like, the result being that it all goes to merchants.

Bellary.—There was an increase of Rs. 2,000 over the receipts of last year under II (*a*) owing to a better valuation of trees on darkhast lands; also an increase of Rs. 1,000 under II (*b*) on account of a large demand for jaggery-boiling works; and an increase of Rs. 1,300 under II (*e*) on account of a great demand for tangedu.

Anantapur.—The chief revenue comes under this head, the two main sources being *Acacia arabica* and topes (Rs. 5,135) and tangedu bark (Rs. 7,594). Permits for tangedu paid better than leases last year, for Rs. 4,968 was received for permits in Dharmavaram and Penukonda taluks against Rs. 2,626 for the other five taluks by lease. The shrub wants protection in this district.

Nilgiris.—There was a decrease compared with last year, which is not explained in the report.

Free grants.

36. The following list is made out in accordance with the statements sent in by the District Forest-officers. It shows the difficulty of arriving at statistics from insufficient data; and the Rs. 42,000 estimated as the value of concessions in Kistna is probably not so much an error on one side as the blank statement from Anantapur or the Rs. 10 from Bellary. There are no means at present of arriving at the estimate of the amount taken free from Government land:—

	Rs.	Rs.
Ganjam—		
Timber and bamboos	1,720	
		1,720
Vizagapatam—		
Timber and firewood	3,004	
Minor produce	2,386	
		5,390
Godávari—		
Timber	85	
		85
Kistna—		
Free grazing on waste lands	40,000	
Right to leaves for fodder	2,000	
		42,000

	Rs.	Rs.
Nellore—		
Timber	430	
		430
Cuddapah—		
Timber	575	
Bamboos	305	
		880
Kurnool—		
Timber and bamboos	120	
		120
Bellary—		
Firewood	10	
		10
Nílgiris—		
Timber	210	
		210
Grand Total ...		50,845

For details of free grants, *vide* appendix (F).

Drift and confiscated wood.

37. The total under this heading was Rs. 9,328 (of which Rs. 6,740 were collected in Godávari) against Rs. 4,554 collected last year.

CHAPTER VI.

Financial Results.

38. *Financial results.—Form No.* 64 gives the summary of revenue and expenditure for the year, the result being—

	Rs.
Revenue	5,64,723
Expenditure ... ... { A. 2,18,009 / B. 2,35,785	
	4,53,794
Surplus ...	1,10,929

This surplus is less than that of last year by a sum of Rs. 6,353, though the total revenue exceeds that of last year by Rs. 12,475. The net revenue is 19·6 of the gross revenue.

The comparison of revenue and expenditure for the different districts is given below. The form is somewhat enlarged this year so as to show side by side the budget figures and the actuals:—

Districts.	Revenue.			Expenditure A.		
	Sanctioned.	Actual.	Difference.	Sanctioned.	Actual.	Difference.
1	2	3	4	5	6	7
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	..	27	+ 27	1,900	360	— 1,540
Ganjam	68,000	20,079	— 47,921	35,500	25,273	— 10,227
Vizagapatam	7,400	5,389	— 2,011	5,400	1,256	— 4,144
Godávari	67,000	70,323	+ 3,323	25,000	12,176	— 12,824
Kistna	70,000	77,665	+ 7,665	13,000	15,797	+ 2,797
Nellore	91,000	80,290	— 10,710	42,300	38,998	— 3,302
Cuddapah	1,29,900	1,45,202	+ 15,302	44,800	46,176	+ 1,376
Kurnool	90,000	78,157	— 11,843	38,600	16,203	— 22,397
Bellary	27,000	28,860	+ 1,860	21,700	17,978	— 3,722
Anantapur	16,700	19,655	+ 2,955	3,100	2,690	— 410
Nílgiris	58,000	39,076	— 18,924	44,700	41,102	— 3,598
Total ..	6,25,000	5,64,723	— 60,277	2,76,000	2,18,009	— 57,991

Districts.	Expenditure B.			Total deficit or surplus.	
	Sanctioned.	Actual.	Difference.	Sanctioned.	Actual.
	8	9	10	11	12
	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	50,902	57,729	+ 6,827	— 52,802	— 58,062
Ganjam	12,335	14,842	+ 2,507	+ 20,165	— 20,036
Vizagapatam	7,200	6,431	— 769	— 5,200	— 2,298
Godávari	15,950	16,100	+ 150	+ 26,050	+ 42,047
Kistna	22,633	21,169	— 1,464	+ 34,367	+ 40,699
Nellore	23,978	19,959	— 4,019	+ 24,722	+ 21,333
Cuddapah	28,990	28,894	— 96	+ 56,110	+ 70,132
Kurnool	30,893	23,800	— 7.093	+ 20,507	+ 38,154
Bellary	17,808	12,863	— 4,945	— 12,508	— 1,981
Anantapur	10,550	11,340	+ 790	+ 3,050	+ 5,625
Nílgiris	24,761	22,658	— 2,103	— 11,461	— 24,684
Total ..	2,46,000	2,35,785	—10,215	+ 1,03,000	+ 1,10,929

39. These divergences from the estimates are in some cases so considerable that an explanation is necessary.

40. Under *Revenue* the chief deficits occurred in Ganjam, Nellore, Kurnool, and the Nílgiris. In Ganjam the deficit was under I-*a* (Timber) and has been explained in a previous chapter. In Nellore the deficit occurred under 1 (*b*) (Firewood) and was due to the absence of demand in the Madras depôt, since the market has not yet recovered from the glut of wood poured into it at the time of the cyclone. There is, therefore, a considerable stock left unsold at the end of the year. In Kurnool, the chief deficit was under II-*b*. (Firewood) and was owing, in great measure, to the non-realisation of the sums expected from the Bellary-Kistna State Railway. The dispute has now been settled. There was a smaller deficit under II-*a* (Timber removed by purchasers) owing to the fact that merchants kept away from the forests for some time when the system was introduced of payment by the tree, and when the working up of timber in the forest was forbidden. However, towards the end of the year there was a great rush made towards this trade, and since the end of the official year it has been found that the terms which originally frightened the merchants were far too liberal. In the Nílgiris, the deficit occurred chiefly under I-*a*. (Timber) and has been explained in a former chapter.

The chief surpluses occurred in Kistna and Cuddapah, being due in the former chiefly to increased revenue under grazing, and in the latter to a larger sale than usual of timber and fuel, but chiefly to higher prices received under II-*e*. (Other minor produce) for the proceeds of topes.

41. Under *Expenditure*, the failures to expend the allotted amounts under A (Conservancy and Works) occurred chiefly in Ganjam, Godávari, Nellore, Kurnool, and the Nílgiris.

In Ganjam the failure was chiefly under I-*a*. (Timber) and VII-*a* (Roads). The matter has been adverted to in previous chapters. The absence of the permanent District Forest-officer was the cause of part of this failure.

In Godávari and Kurnool, the failures under VI-*a*. and *b*. (Purchase and feed of cattle) occurred through the non-purchase of elephants, as detailed before.

In Nellore, the allotments under A VI-*c*. (Stores, tools, and plant) and under VII-*b*. (Compensation) were not fully utilized: the former owing to a delay in indenting for an addition to the tramway, the latter to a delay in the settlement of Rokkadayam claims in Sríharikóta.

In Kurnool, the allotments under A VII-*a*. (Roads) and VII-*b*. (Buildings) were not utilized. The lapsing of the money under the latter heading is particularly to be deplored, as the officer's house at Nandyál is not fully paid for and some Range houses have not been built. There was a legitimate saving under Demarcation; for, much expenditure was saved by paying the coolies in part with the wood cut on the lines.

In the Nílgiris, the failures occur chiefly under I-*a*. (Timber) and under VII-*b*. (Buildings). The former item has been referred to in a previous chapter. Part of the failure under the latter heading was due to the abandonment of a project to build at Mudumallai, owing to the unhealthiness of the site; but an alternative site should have been chosen and the money utilized.

The rest of the deviations are small.

42. Under B (Establishment) the decrease occurs chiefly under Direction, Nellore, Kurnool, Bellary, and the Nílgiris, under the heads I (Salaries) and II (Travelling allowance). These savings were due partly to the absence of Messrs. Vincent, A. W. Lushington and Sweet, and of Colonel Jago; and partly to the transfer of Mr. P. M. Lushington to the Nílgiris, his pay having been provided for in the budget for Kurnool. The full allotments under Direction I and II (*c*) (Subordinate establishments were not spent, as the sanctioned staff was not maintained at its full graded strength) throughout the year.

43. *Form No.* 65 shows the liabilities outstanding against "contractors and disbursers," chiefly the latter showing a balance in favor of the department of Rs. 39,681. The largest outstandings occur in Ganjam, Kurnool, Godávari, Nílgiris and Kistna, for Rs. 27,000 which stands against Nellore has been adjusted in this year. This was the sum provided in anticipation for compensation for the settlement of claims in that district. The advances in the first five districts mentioned above consist of advances to subordinates for current work.

44. *Form No.* 66 shows the outstandings of revenue amounting to Rs. 3,732 mostly in Ganjam and Kistna. In Ganjam the outstandings are due for timber sold to merchants, but the source is not known of the outstandings in Kistna.

45. *Form No.* 67 gives the distribution of revenue and expenditure under the three heads of "Departmental timber works," "Other revenue" and "Improvement of forests." The ratios adopted for the year in the division of the direction charges were Vizagapatam, 1; Bellary and Anantapur, 2; Ganjam, Godávari, Kistna, 3; and the rest four-thirtieths.

46. *Forms Nos.* 73 (*a*) *and* 73 (*b*) show the comparison between the value of (1) timber, &c., and (2) stores, tools and plant at the beginning and end of the year. The true value of the year's transactions therefore is—

		Rs.
Net revenue		1,10,929
Outstanding revenue	+	3,732
Do. advances	+	39,681
Value of timber, &c.	—	740
Do. of stock	+	17,700
Total		1,71,302
From this should be deducted the erroneous stock balance in Ganjam, referred to in Chapter V, para 34, namely, 26,201 cubic feet at 4½ annas a cubic foot		7,369
Correct Surplus		1,63,933

Elephants.

47. *Form No.* 74 gives the particulars of these. The condition and work of these is not very satisfactory. The elephant reported to be pregnant gave birth to a calf on the 22nd February 1888.

CHAPTER VII.

GENERAL REMARKS.

48. In Ganjam Mr. Lushington spends a large proportion of his time on tour, and is making efforts to remedy the failure up to date of making the working of these forests a financial success. Terms are being debated with the manager of the Aska factory to have wood sawn there so as to save much expenditure in carriage. However, the main element of success will result from a strict enforcement of the rule

at present in force prohibiting export of timber from part of the Agency tracts and from the extension of this rule, if possible.

49. In this district Mr. McLaughlin is specially commended among the rangers; and Mr. Newman has shown some capacity in raising the revenue of the Berhampore taluk.

Health generally indifferent; much fever.

In *Godávari* Mr. Battie's work has been satisfactory. The extension of the Forest Act to Juddengy has been proposed. Two of the three Koyas tried as forest guards have proved worse than useless.

The work of the Sub-Assistant Mr. Stafford is reported to be unsatisfactory this year.

Ranger Viswanatham Pantulu is specially commended.

Ranger Eggia Sastry, from Dehra Dún, promises well.

None of the foresters in the district are said to show any promise.

The health of the establishment was bad. The second clerk, a guard, and a tannadar died and the Sub-Assistant has been constantly complaining of fever.

In *Kistna* Mr. Homfray was laid up for two months from an accident, but spent 228 days out of the other ten months in camp attending chiefly to settlement, the importance of which he recognised and to which he devoted great attention. The health of the establishment was generally good.

Nellore.—Mr. Brougham had particularly hard work with settlement and showed great care in attending to his duties under this head. This matter came particularly under the notice of the Acting Conservator, and he has great pleasure in testifying to Mr. Brougham's attention. Mr. Vincent before leaving had sent a special warning about the importance of settlement in Nellore; and it was found that most of the important defences had to be entirely remodelled by Mr. Brougham.

Cuddapah.—Mr. Higgens had very hard work in finishing up settlement before leaving. Mr. Lodge has carefully worked out the details which required looking into.

Among the rangers, Mr. Ward in Kódúr and Mr. Callanan in Badvél are specially commended. There were five deaths in the subordinate establishment.

In *Kurnool* some of Mr. Hooper's work has already been commented on, but besides that work he devoted much attention to selection. The health of the establishment was peculiarly bad, and work was much hampered in consequence. The work of Acting Ranger Dorasawmi Aiyer and Forester Anantha Charlu is specially noted, with the remark that the work of the latter was much interfered with by ill health. The Ranger Leipenstein gives some promise.

Bellary.—Mr. Sweet was in charge of Anantapur and Bellary, the former being in immediate charge of M.R.Ry. Somasundra Mudaliar. Mr. Sweet was unfortunately so ill during the greater part of the year that his work cannot be gauged by any ordinary test. Mr. Ward, Acting Sub-Assistant from Cuddapah, took Mr. Sweet's place. Mr. Ward's work as a ranger in Cuddapah received high commendation from Mr. Lodge.

Anantapur.—M.R.Ry. Somasundra Mudaliar spent 210 days in camp out of 268, which showed great attention to his duties.

Nílgiris.—The work of the Sub-Divisional officer Nallasawmy Naidu in Coonoor and Kótagiri is specially to be commended. Mr. P. M. Lushington was very active during his short tenure.

50. The annual reports from the districts reached much more punctually this year, the due date being the 15th May: the reports only of Ganjam (23rd), Godávari (24th) and Vizagapatam (31st) were more than two days out. However, many of the returns had to be sent back for correction, and returns are still due from Ganjam, which delays the final completion of the tabular statements.

51. These tabular statements have been, however, all printed this year, leaving blanks for missing returns; and with few exceptions are on this date (18th July) ready, having passed through three proofs. In form No. 72 it is hoped that the figures are all correct this year, so that the marginal notes calling attention to the fact that the District Forest-officers' figures differ from those of the Examiner are omitted.

52. The *service books* are reported to be all kept up.

APPENDIX.

Experiments and Exotics.

In Kistna, the mahogany cultivation is a dead failure in the Kistna sands and grass lands, and the fact may be admitted and further attempts stopped. Some plants put in partial shade in the Bezváda reserve are said to be doing better, but it is doubtful if the climate is moist enough.

Of all the trees attempted in the experimental garden, the rain-tree (*Pithecolobium saman*) and the *Kigelia pinnata* seem to flourish the best. The soil is sandy. The *Kigelia* is believed to be of African origin, and the young trees show the peculiarity marked in the older specimens of having an abnormally thickened stem, suddenly tapering. Arabian date trees are coming on slowly but fairly in sandy soil.

In Nellore, the following table shows the experiments:—

Description of plants.	Remaining at the commencement of the year.	Planted during year.	Total.	Casualties.	Plants alive on 1st April 1888.
Teak	363	..	363	128	235
Mahogany	994	719	1,713	418	1,295
Sissu	..	1,030	1,030	654	376
Trincomali	5	..	5	..	5
Adenanthera pavonina	..	480	480	340	140
Edible prickly-pear	12	..	12	..	12
Ironwood	60	..	60	29	31
Date	100	..	100	..	100
Paidi Tangedu	55	..	55	..	55
Cashewnut	47	..	47	..	47
Eucalyptus	3	..	3	..	3
Pelloplorum	6	..	6	..	6
Bamboo	24	..	24	..	24

Mahogany is a failure at Sriharíkóta in the sandy soil. Edible date is growing fairly. Edible cactus (prickly-pear) has not shown great growth during the year, but seems healthy. Ironwood seedlings were killed out by the brackish water after the floods in October.

In Cuddapah, edible date seedlings are doing well, especially in sandy soil. One hundred seedlings were given to the Ryots' association at Madanapalle. The offshoots of edible dates received from Arabia two years ago were planted out in two lots. The first lot was placed in pits 4 feet apart, and all the plants are well-established. The second lot was placed in trenches and rather crowded, and are rather backward and unhealthy.

The *Eucalypti* planted at Horsleykonda are very weedy.

The following seedlings were planted out there:—

Acacia Melanoxylon	5
Acrocarpus fraxinifolius	192
Eucalyptus rostrata	15
Cupressus torulosa	103

The average girth of red sanders on the sample area regularly reported on is said to have risen 1·03 inches; but the experiment is vitiated by the fact that many trees were blown down by the cyclone, and the tops of others broken over.

In Bellary, the silo formed at Yetinhatti in September 1886 was opened in April 1888. The delay was on account of the difficulty of getting bullocks for experiment. However, when through the influence of the Rajah of Sandúr some bullocks were procured for the experiment, the ensilage (grass) was found to be in such good condition that there was a rush for it. The experiment must be considered a success.

In Anantapur, the date seedlings brought from Cuddapah, and the edible cactus are doing well. They are to be transplanted shortly. The date seedlings transplanted last year into the Anantapur reserve are doing well.

On the *Nilgiris* experiments were made with many species of trees.

In the Ootacamund range 12 acres were planted with *Eucalpytus globulus*, 6 acres with cypress, 1½ acres with *Acer Campbelli* and *Frenela*, vacancies being filled up with *Pinus longifoil* Shola plants, Blue-gum, Cryptomeria, Frenela, Cypress, Acacia, and Maples.

In the Coonoor range the following trees were planted—

	Number.
Grevillea robusta	1,038
Eucalyptus botryoides	119
Do. esignifera	7
Do. goniscaly	33

	Number.
Podocarpus elongatus	95
Curtisia fagnia	24
Bucklandia populnea	71
Frenela rhomboidea	2,209
Pinaster	600
Acacia decurrens	526
Cupressus torulosa	150
Casuarina suberosa	13,730
Meliosma arnottiana	74
Pinus longifolia	163
Oak	84

In the Kullar range, in addition to the ironwood and teak plantation, 2,494 mahogany plants were put into compartments 9 and 10 of block II of the Kullar reserve and the failures of previous years were filled up with 1,380 plants and all are doing well. Here mahogany planting is a great success. The trees planted in 1885-86 show a very fine growth, especially in places where there is sufficient moisture, where they attain a height of from 10 to 14 feet. In some cases they have been attacked by a borer, and some experiments have been made to combat this pest by syringing the holes with kerosine oil, and soap and water. The latter is believed to be effective, but the experiments are not conclusive.

In addition to the mahoganies, 2,475 plants of *Adenanthera pavonina* and 3,642 plants of sissu have been put into this reserve, of which about 25 per cent. were failures.

The work on the whole in the Ootacamund range was not altogether satisfactory, as the Ranger there required more immediate superintendence.

In the Coonoor Sub-division the work was excellent and reflects great credit on the Sub-divisional officer, Nallasawmy Naidu :—

A.—Statement showing the demarcation work done and the cost incurred therefor during the years 1884-85, 1885-86, 1886-87 and 1887-88.

Districts.	1884-85.			1885-86.		
	Miles.	Number of posts or cairns erected.	Cost including value of cairns.	Miles.	Number of posts or cairns erected.	Cost including value of cairns.
1	2	3	4	5	6	7
			Rs.			Rs.
Ganjam	117	..	1,320	122	..	1,509
Vizagapatam	..	..	..	..	..	36
Godávari	..	..	..	8	..	26
Kistna	9¼	1,180	761	48½	197	2,047
Nellore	..	..	2	..	..	3
Cuddapah	141	..	1,681	119	..	2,475
Kurnool	45	..	4,799	4	..	1,504
Bellary	5½	73	516	56	252	573
Anantapur	24½	..	283	55¾	105	505
Nilgiris	118	3,043	2,153	156	4,889	3,924
Total ..	460¼	4,296	11,515	569¼	5,443	12,602

Districts.	1886-87.			1887-88.		
	Miles.	Number of posts or cairns erected.	Cost including value of cairns.	Miles.	Number of posts or cairns erected.	Cost including value of cairns.
8	9	10	11	12	13	
		Rs.			Rs.	
Ganjam	159	109	3,119	138¼	5,668	4,817
Vizagapatam	..	..	148	..	..	14
Godávari	236	..	1,884	265	..	2,322
Kistna	87	345	1,986	206	896	4,826
Nellore	..	27	26	429	1,560	2,967
Cuddapah	162	2,689	5,467	177	2,747	5,650
Kurnool	28	160	714	175	..	749
Bellary	165	249	1,379	120	819	1,049
Anantapur	37	273	1,542	15¾	403	403
Nilgiris	129	3,481	2,937	119	3,317	2,210
Total ..	1,003	7,333	19,202	1,645	15,410	25,007

B.—Statement showing the yield of several compartments felled and thinned during the year according to the plans of operations.

Name of range.	Name of working circle.	Name of plantation.	Number of compartment.	Area thinned or felled.		Age when felled or thinned.	Number of trees felled.	Firewood.		Head loads branchwood.		Bullock loads branchwood.	
				Acres.	Cents.			Lots.	Lb.	Number.	Lb.	Number.	Lb.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Ootacamund ..	Governor's shola ..	Baikie	3	12	..	13	517	96	480,000	69	5,526	..	..
		Governor's shola	2	12	..	6	1,540	304	1,520,000	2,758	220,640	..	..
		Andy	..	17	..	6	638	79	395,000	3,189	255,120	3	600
	Cairn hill reserve ..	Buthry plantation ..	1	5	..	9	758	106	529,000	741	59,280	..	..
	Aramby	Aramby	6	4½	..	14	1,218	481	2,417,000	3,198	255,840	..	..
		Koolie	8	2¾	..	7	912	93	465,000	372	29,760	..	..
		Do.	11	2¾	..	7	725	147	735,000	726	58,080	..	..
	Coonoor peak reserve ..	Old forest plantation ..	5	5	..	14	575	113	509,000	1,299	103,920	441	88,200
			14	3	5	14	826	139	626,000	769	61,520	200	40,000
			17	3	4	14	1,089	272	1,223,500	2,276	182,080	..	..
			20	3	7	14	839	183	824,000	1,447	115,760	181	36,200
			22	6	8	14	2,908	521	2,345,500	3,827	306,160	269	53,800
			30	3	5	..	29	13	58,250	..	..	..	..
			31	5	1	14	990	236	106,200	2,714	217,120	181	36,200
			38	5	3	..	17	15	Posts and 2 poles.		..	..	..
			40	4	5	14	60	18	81,000	..	..	..	..
Coonoor			1	3	75	29	84	Loads 17½	174,250	144	11,520	..	..
			23	2	25	29	23	70	70,000	214	17,120	..	..
	Bandy shola	Bandy shola plantation ..	24	2	95	29	97	259	259,000	375	30,000	..	..
			2	1	45	..	..	..	..	170	13,600	..	..
			9	2	60	..	..	..	..	..	..	14	2,800
	Bleak house	Bleak house plantation ..	4	5	50	29	493	204	204,000	708	96,640	..	..
			6	9	..	29	128	92	92,000	1,941	411,280	..	..
		Total ..	..	120	88	..	14,466	..	..	..	..	..	..

B.—Statement showing the yield of several compartments felled and thinned during the year according to the plans of operations—*cont.*

Name of range.	Name of working circle.	Name of plantation.	Drag poles. Number.	Drag poles. Lb.	Total yield in lb.	Total yield in tons.	Number of belt trees.	Number of standards left.	Total trees.	Estimated quantity of standing trees in tons.	Total yield in tons.	Yield per acre in tons.	Remarks.
			15	16	17	18	19	20	21	22	23	24	25
Ootacamund ..	Governor's shola ..	Baikie	..	..	485,520	216	..	..	..	..	216	18	
		Governor's shola	..	..	1,740,640	777	..	..	..	..	777	64¾	
		Andy	..	..	650,720	290	..	..	..	..	290	17	
	Cairn hill reserve ..	Buthry plantation ..	..	..	588,280	262	..	..	..	..	262	52	
	Aramby	Aramby	..	..	497,540	222	..	..	..	..	222	49	
		Koolie	..	..	494,760	220	..	..	..	..	220	80	
		Do.	..	..	793,080	354	..	..	..	..	354	31½	
	Coonoor peak reserve ..	Old forest plantation ..	632	31,600	732,720	326¼	..	..	..	..	326¼	65¼	
			432	21,600	749,120	334¼	382	240	622	253	587¼	193	
			120	6,000	1,411,680	630	500	307	807	711½	1,341½	441¼	
			728	36,400	1,012,360	452	..	160	160	77¾	529¾	172½	
			1,280	64,000	2,769,460	1,235½	..	403	403	170½	1,406¼	231	
			..	..	58,250	26	..	..	..	..	26	*8½	
			280	14,000	1,329,320	593	483	189	672	402½	995½	199	
			..	..	..	..	..	..	..	..	..	..	For seed-house.
Coonoor			..	..	81,000	36	..	..	..	..	36	9	
			..	..	185,770	83	40	55	95	94	177	..	
			..	..	87,120	39	..	53	53	89¼	128½	..	
	Bandy shola	Bandy shola plantation ..	..	..	289,000	129	..	50	50	66	195½	..	
			..	..	13,600	6	..	..	..	..	†6	..	
			..	..	2,800	1¼	..	..	..	..	†1¼	..	
	Blackhouse	Bleakhouse plantation ..	380	19,000	319,640	142½	75	140	215	62¼	205	..	
			..	..	503,280	224¼	..	..	..	..	..	..	
		Total ..	..	..	..	6,599	..	..	..	1,926¾	8,302¾	1,631¾	

* This was cut on account of the new road between compartment Nos. 31 and 32.
† Removed from last year's stock.

C.—Statement showing the cost and yield, up to 31st March 1888, of the Casuarina plantations in Nellore and Gúdúr taluks.

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1888.	Cost per acre.	Yield up to 31st March 1887.	Approximate return up to 31st March 1887.		Yield during 1887-88.				Approximate return during 1887-88.		Grand Total.	
							Rate.	Amount.	Thinning and cutting dead wood.	Clean felling.					Total tons 7 and 13.	Amount 9 and 15.
									Tons.	Area.	Tons.	Total.	Rate.	Amount.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Rs.	Rs.		Rs.	Rs.					Rs.	Rs.		Rs.
Dugarázpatnam ..	1 & Extra interplanted.	45	1873 1874	10,131	225	344	6	2,064	1,196	..	..	1,196	5	5,980	1,540	8,044
	2	26	1874	6,907	265	589	..	3,534	..	..	..	..	..	..	589	3,534
	3	30	1875	6,448	215	754	..	4,524	..	..	..	..	..	..	754	4,524
	4	59	1880	3,397	57	385	..	2,310	159	..	..	159	..	795	544	3,105
	5	104	1881	4,416	42	262	..	1,572	416	..	..	416	..	2,080	678	3,652
	1882	4	1882	..	..	20	..	120	9	..	..	9	..	45	29	165
	1883	73	1883	3,371	46	..	..	..	15	..	..	15	..	75	15	75
	1884	60	1884	2,386	40	..	..	..	9	..	..	9	..	45	9	45
	1885	30	1885	1,254	42	..	..	..	..	..	..	..	..	..	..	..
	1886	60	1886	332	5	..	..	..	..	..	..	..	..	..	..	..
	1887	100	1887	494	5	..	..	..	..	..	..	..	..	..	..	..
Kottapatam	1	24	1873	6,004	250	1,051	..	6,306	103	..	..	103	..	515	1,154	6,821
	Interplanted.		1874	6,536	272	884	..	5,304	..	..	..	..	..	..	884	5,304
	2	24	1874													
	3	32	1875	6,170	190	806	..	4,836	690	..	..	690	..	3,450	1,496	8,286
	4	40	1880	3,082	77	74	..	444	124	..	..	124	..	720	198	1,164
	5	112	1881	4,407	39	188	..	1,128	768	..	..	768	..	3,840	956	4,968
	1882	16	1882	..	..	..	..	..	..	..	..	..	..	..	..	..
	1883	22	1883	1,010	45	1	..	6	..	..	..	..	..	..	1	6
	1884	37	1884	1,462	39	..	..	..	..	..	..	..	..	..	..	..
	1885	30	1885	889	29	..	..	..	..	..	..	..	..	..	..	..
	1886	25	1886	181	7	..	..	..	..	..	..	..	..	..	..	..
	1887	50	1887	448	8	..	..	..	..	..	..	..	..	..	..	..
Chattram tope	Resumed by Government under tope rules.						120	720	..	..	..	..	..	..	120	720
Pamanji tope							169	1,014	..	..	..	..	..	..	169	1,014
Tamminapatam ..	1	41	1873	12,142	296	769	..	4,614	..	..	..	..	..	..	769	4,614
	Interplanted.		1874	9,576	162	1,608	..	6,048	..	..	..	..	..	..	1,008	6,048
	2	59	1874													
	3	29	1875	7,878	272	587	..	3,522	..	..	..	..	..	..	587	3,522
	4	64	1880	3,807	59	12	..	72	128	..	..	128	..	640	140	712
	5	139	1881	5,779	42	22	..	132	104	..	..	104	..	520	126	652
	1882	81	1882	83	1	..	..	..	182	..	..	182	..	910	182	910
	1883	68	1883	2,391	33	..	..	..	1	..	..	1	..	5	1	5
	1884	30	1884	1,184	39	..	..	..	..	..	..	..	..	..	..	..
	1885	10	1885	317	32	..	..	..	..	..	..	..	..	..	..	..

C.—Statement showing the cost and yield up to 31st March 1888 of the Casuarina plantations in Nellore and Gúdúr taluks—*cont.*

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1888.	Cost per acre.	Yield up to 31st March 1887.	Approximate return up to 31st March 1887.		Yield during 1887-88.				Approximate return during 1887-88.		Grand Total.	
							Rate.	Amount.	Thinning and cutting dead wood.	Clean felling.					Total tons 7 and 13.	Amount 9 and 15.
									Tons.	Area.	Tons.	Total.	Rate.	Amount.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Rs.	Rs.		Rs.						Rs.			
Vutukur	1	32	1875	7,527	232	94	5	470	..	..	..	..	..	..	94	470
	2	32	1880	3,927	122	22	..	120	..	..	..	..	..	..	22	120
	3	84	1881	4,656	55	8	..	40	..	..	..	..	..	..	8	40
Varany	1 Interplanted	40	1873 1874	10,339	258	58	..	290	..	..	..	..	..	..	58	290
	2	40	1874	8,911	223	115	..	575	..	..	..	..	..	..	115	575
	3	40	1875	8,108	202	50	..	250	..	..	..	..	..	..	50	250
	4	40	1880	3,188	80	35	..	175	..	..	..	..	..	..	35	175
	5	80	1881	4,064	50	12	..	60	..	..	..	..	..	..	12	60
	1883 1884	3	1883 1884	121	40	..	..	..	..	..	..	..	..	..	..	..
Ebrow's tope	..	19	Resumed by Government under tope rules.			504	..	3,024	..	..	..	..	..	..	504	3,024
Salt tope	..	4	..	..	..	35	..	210	..	..	..	..	..	..	35	210
Around wells	1886	4	1886	169	42	..	..	..	..	..	..	..	..	..	..	..
	1887	10	1887	242	24	..	..	..	..	..	..	..	..	..	..	..
Resumed by Government.	4	Under tope rules.				118	..	708	..	..	..	..	..	..	118	708
Allipuram	1	18	1870	8,579	476	146	..	730	..	..	..	..	..	..	146	730
	2	36	1881	707	20	..	..	..	..	..	..	..	..	..	..	..
Iskapalle	..	23	1870	960	160	104	..	520	..	..	..	..	..	..	104	520

D.—*Oven.*

Consecutive number.	Actual amount of wood utilized in lb.	Value.					Total cost of making.	Quantity of charcoal raked.	Rates of column 2 to 9.	Estimated value of charcoal at Re. 1 per 50 lb.	Surplus.	Deficit.
		Of wood actually utilized at Re. 1 per load.	Of cutting, splitting and carrying.	Of making or wages of charcoal burners.	Of wastage of wood.	Of sundries.						
1	2	3	4	5	6	7	8	9	10	11	12	13
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.
1	5,800	5 12 10	3 15 9	1 14 7	1 6 9	0 5 9	13 7 8	500	11½ to 1	10 0 0	..	3 7 8
2	4,500	4 8 0	3 1 6	1 7 8	1 0 10	0 4 8	10 6 8	500	9 to 1	10 0 0	..	0 6 8
3	3,700	3 11 2	2 8 7	1 3 6	0 13 11	0 3 8	8 8 10	350	10½ to 1	7 0 0	..	1 8 10
4	6,700	6 11 2	4 9 9	2 3 3	1 9 2	0 6 10	15 8 2	700	9½ to 1	14 0 0	..	1 8 2
5	6,700	6 11 2	4 9 9	2 3 3	1 9 2	0 6 10	15 8 2	750	9 to 1	15 0 0	..	0 8 2
6	7,000	7 0 0	4 13 0	2 4 9	1 12 2	0 7 0	16 4 11	750	9⅓ to 1	15 0 0	..	1 4 11
7	5,000	5 0 0	3 7 0	1 11 4	1 2 9	0 5 0	11 10 1	450	11 to 1	9 0 0	..	2 10 1
8	6,200	6 3 2	4 4 5	2 1 8	1 7 3	0 6 6	14 7 0	600	10⅓ to 1	12 0 0	..	2 7 0
9	6,500	6 8 0	4 7 6	2 2 3	1 5 3	0 6 8	14 13 8	700	9⅓ to 1	14 0 0	..	0 13 8
10	5,000	5 0 0	3 7 0	1 11 6	1 2 9	0 5 0	11 10 1	600	8⅓ to 1	12 0 0	0 5 11	..
11	5,800	5 12 10	3 15 9	1 14 7	1 6 9	0 5 11	13 7 10	550	10½ to 1	11 0 0	..	2 7 10
12	9,500	9 8 0	6 8 6	3 2 0	2 3 5	0 9 8	21 15 7	950	10 to 1	19 0 0	..	2 15 7
13	9,000	9 0 0	6 3 0	2 15 6	2 2 3	0 9 0	20 13 9	850	10¾ to 1	17 0 0	..	3 13 9
14	10,000	10 0 0	6 14 0	3 4 7	2 6 0	0 10 0	23 2 7	1,100	9 to 1	22 0 0	..	1 2 7
15	9,000	9 0 0	6 3 0	2 15 4	2 2 9	0 9 0	20 14 3	1,050	8½ to 1	21 0 0	0 1 9	..
16	8,000	8 0 0	5 8 0	2 10 2	1 14 3	0 8 0	18 8 5	1,300	6⅙ to 1	26 0 0	7 7 7	..
17	10,000	10 0 0	6 14 0	3 4 7	2 6 6	0 10 0	23 3 1	1,450	6¾ to 1	29 0 0	5 12 11	..
18	8,300	8 4 10	5 11 4	2 11 8	1 15 6	0 8 6	19 3 10	1,400	5¾ to 1	28 0 0	8 12 2	..
19	8,000	8 0 0	5 8 0	2 10 1	2 0 1	0 8 0	18 10 2	1,500	5⅓ to 1	30 0 0	11 5 10	..
20	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,500	5⅓ to 1	30 0 0	11 6 5	..
21	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,650	4⅞ to 1	33 0 0	14 6 5	..
22	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,500	5⅓ to 1	30 0 0	11 6 5	..
23	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,500	5⅓ to 1	30 0 0	11 6 5	..
Total ..	1,66,700	166 11 2	114 9 10	55 0 7	39 13 6	10 8 0	386 11 1	22,200	7½ to 1	444 0 0	82 7 10	25 2 11

E.—*Common kilns.*

Consecutive number.	Actual amount of wood utilized in lb.	Value. Of wood utilized at Re. 1 per 1,000 lb.	Of cutting, carrying and splitting.	Of making or wages of charcoal burners.	Of wastage of wood.	Of sundries.	Total cost of making.	Quantity of charcoal raked.	Rates of column 1 to 6.	Estimated value of charcoal at Re. 1 per 50 lb.	Surplus.	Deficit.
1	2	3	4	5	6	7	8	9	10	11	12	13
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	LB.		Rs. A. P.	Rs. A. P.	Rs. A. P.
1	9,000	9 0 0	4 8 0	5 0 3	0 11 10	0 9 3	19 13 4	1,150	7¾ to 1	23 0 0	3 2 8	..
2	8,000	8 0 0	4 0 0	4 7 4	0 10 6	0 8 2	17 10 0	800	10 to 1	16 0 0	..	1 10 0
3	15,000	15 0 0	7 8 0	8 5 9	1 0 8	0 15 5	32 13 10	1,800	8 to 1	36 0 0	3 2 2	..
4	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	950	10½ to 1	19 0 0	..	3 1 5
5	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,150	8½ to 1	23 0 0	0 14 7	..
6	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,100	9 to 1	22 0 0	..	0 1 5
7	12,000	12 0 0	6 0 0	6 11 0	0 15 9	0 12 2	26 6 10	1,300	9 to 1	26 0 0	..	0 6 10
8	9,800	9 12 9	4 14 0	5 5 7	0 12 11	0 10 1	21 7 4	1,000	9½ to 1	20 0 0	..	1 7 4
9	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,050	9 to 1	21 0 0	..	1 1 5
10	9,430	9 6 11	4 11 6	5 4 1	0 12 5	0 9 8	20 12 7	950	9¾ to 1	19 0 0	..	1 12 7
11	11,000	11 0 0	5 8 0	6 2 1	0 14 4	0 11 4	24 3 9	1,100	10 to 1	22 0 0	..	2 3 9
12	9,300	9 4 10	4 10 0	5 2 11	0 12 3	0 9 7	20 7 7	1,000	9 to 1	20 0 0	..	0 7 7
13	9,800	9 12 10	4 14 0	5 5 7	0 12 10	0 10 1	21 7 4	1,000	9½ to 1	20 0 0	..	1 7 4
14	9,050	9 0 9	4 9 6	5 0 6	0 11 10	0 9 3	19 15 10	900	9 to 1	18 0 0	..	1 15 10
15	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,050	10 to 1	21 0 0	..	1 1 5
16	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,000	10 to 1	20 0 0	..	2 1 5
17	2,000	2 0 0	1 0 0	1 1 6	0 2 8	0 2 0	4 6 2	393	6 to 1	7 0 0	3 7 7	..
Total ..	164,380	164 6 1	82 3 0	91 11 7	13 4 6	10 8 0	362 1 1	17,693	9⅓ to 1	353 0 0	..	9 1 1

F.—Statement showing free-grants during the year 1887-88.

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted.			Remarks.
						Description.	Number or quantity.	Value.	
								Rs. A. P.	
Ganjam	Collector's order.	Suradá	Bori	Inhabitants of Bori village.	To rebuild their houses burnt by fire.	Sajo	398	1,394 0 0	
						Kosi	150	150 0 0	
						Miscellaneous	316	59 4 0	
						Bamboos	308	77 0 0	
						Wattlings	159	29 12 0	
							..	1,710 0 0	
		Kurcholy ..	Molangi	Inhabitants of Molangi village.	Do. ..	Miscellaneous	47	8 13 0	
						Bamboos	25	3 2 0	
							..	11 15 0	
						Total, Ganjam ..	..	1,721 15 0	
Vizagapatam ..	Do.	Pálkonda ..	Pálkonda ..	Not known ..	For building houses ..	Timber	Tons 415	1,621 8 0	
					For domestic purposes	Firewood	,, 553	1,382 8 0	
						Minor produce	,, 1,192	2,384 4 0	
							..	5,388 4 0	
						Total, Vizagapatam ..	..	5,388 4 0	
Godávari	Rule 13 of the Forest rules under section 26.	Peddapuram ..	Murari	Rapaka Tatayya and Jaimi Mallayya.	To repair houses destroyed by fire.	Palmyra trees	56	84 0 0	
							..	84 0 0	
						Total, Godávari ..	..	84 0 0	
Kistna	G.O., No. 1342, 16th Oct. 1880.	All ranges ..	....	Government ..	As a relief to the villagers.	Right to graze cattle free of payment on waste lands.	..	40,000 0 0	
	Rules under section 26.	Bandar, Bápatla.	Coast forests ..	Collector	For cattle fodder ..	Right to take the leaves of the "mada" (Aviceunia tomentosa).	Not known.	2,000 0 0	Rough estimate of value.
							..	42,000 0 0	
						Total, Kistna ..	..	42,000 0 0	

F.—Statement showing free-grants during the year 1887-88—*cont.*

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted.			Remarks.
						Description.	Number or quantity.	Value.	
								Rs. A. P.	
Nellore	Collector's order	Kávali ..	Nagalavaram ..	R. Runga Row of Jakapalli, Gudúr.	To rebuild the house burnt by fire.	Margosa trees	3	6 0 0	
						Palmyra do.	15	15 0 0	
			Tallúr	Do. ..	Do. ..	Margosa do.	5	11 0 0	
			Anemadugu ..	C. Ramakrishna Reddi and others.	Do. ..	Palmyra do.	67	67 0 0	
			Channayyapalem.	K. Atchanna and brothers.	To build a village chavadi.	Do. do.	300	300 0 0	
			Kadamuthalu ..	Village officers ..	Do. ..	Do. do.	12	12 0 0	
			Madurapad ..	Do.	Do. ..	Do. do.	20	20 0 0	
						Total, Nellore ..	..	431 0 0	
Cuddapah	District Forest-officer's order.	Kodúr * ..	....	Ryots of villages ..	To rebuild their houses destroyed by fire.	Third-class wood	Tons 92	230 0 0	
		Sidhout ..	....	....	....	....	,, 37	92 8 0	
		Badvél † ..	....	....	....	....	,, 26	65 0 0	
		Cuddapah ..	....	....	....	....	,, 17	42 8 0	
		Madanapalle ..	....	....	....	....	,, 6	15 0 0	
		Ráyachóti ‡ ..	....	....	....	....	,, 52	130 0 0	
							..	575 0 0	
		Kodúr * ..	....	....	....	Bamboos	Tons 52½	131 4 0	
		Badvél † ..	....	....	....	....	,, 17½	43 12 0	
		Ráyachóti ‡ ..	....	....	....	....	,, 52	130 0 0	
							..	305 0 0	
						Total, Cuddapah ..	..	880 0 0	
Kurnool	Tahsildar ..	Sirvel ..	Mahadevapuram ..	Villagers	To rebuild their houses destroyed by fire.	Timber, third-class, rough.	Tons 15	37 8 0	This does not include the grant to right holders, viz., the temple agent Ahobilam under the Forest Settlement-officer's order on Sirvel claim No. 5.
	District Forest-officer.	Yerramalais ..	Pendacul	Chakala Ramagadu and three others.	Do. ..	Bamboos	,, 15	37 8 0	

F.—Statement showing free-grants during the year 1887-88—*cont.*

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted. Description.	Number or quantity.	Value.	Remarks.
								Rs. A. P.	
Kurnool—*cont.* ..	District Forest-officer.	Márkápur ..	Sethakode ..	Villagers ..	To rebuild their houses destroyed by fire.	Timber, third-class, rough ..	Tons. 5	12 8 0	
						Do. ..	,, 13	32 8 0	
						Total, Kurnool ..	..	120 0	
Bellary	Rule 13 of the Forest rules under section 26.	Kúdligi ..	Siddamasethyhalli.	Bijalal ..	For domestic purposes.	Firewood	Tons 1	0 12 0	
			Kakkuppi ..	Ramanjulu Naidu	Do. ..	Do.	,, 1	0 12 0	
			. ..	Bijalal. ..	Do. ..	Do.	,, 2	1 8 0	
			Amalápuram ..	K. Bheema Row ..	Do. ..	Do.	,, ½	0 6 0	
			Jaramali ..	Do. ..	Do. ..	Do.	,, ½	0 6 0	
			Ammanakeri ..	Do. ..	Do. ..	Do.	,, ½	0 6 0	
			Keriaginahalli ..	Do. ..	Do. ..	Do.	,, ½	0 6 0	
			Gunasagaram ..	Do. ..	Do. ..	Do.	,, 1	0 12 0	
			Kulikunta ..	Do. ..	Do. ..	Do.	,, 1	0 12 0	
			Hulikunta ..	D. Rama Row ..	Do. ..	Do.	,, 2	1 8 0	
			Ammanakeri ..	A. Kristna Row ..	Do. ..	Do.	,, 1½	1 2 0	
			Kakkuppi ..	Seenappa ..	Do. ..	Do.	,, 2	1 8 0	
						Total, Bellary ..	..	10 2 0	
Anantapur ..				*Nil.*					
Nílgiris ..	..	Kundahs ..	..	....	To build new houses and cattle kraals.	Junglewood trees ..	7	21 0 0	Throughout the district the ryots cut their agricultural implements (unreserved kinds) and firewood, &c., free of charge in the unreserved forests as usual.
		Ootacamund ..	..	....	To build new houses and funeral sheds.	Do. do. ..	57	171 0 0	
		Mélúr ..	Athigarhatty ..	Kukka Gounden ..	Ploughing materials.	Do. do. ..	Tons 3	6 14 0	
		Coonoor ..	Neduhatti ..	Andy and 5 others ..	To build a new house.	Do. do. ..	Trees 2	6 0 0	
		Kótagiri ..	. ..	Kalen	Ploughing materials.	Do. do. ..	,, 1	3 0 0	
				Kamen	To build a new house.	Do. do. ..	,, 1	3 0 0	
						Total, Nílgiris	..	210 14 0	

ABSTRACT.

	Value. Rs. A. P.
Ganjam	1,721 15 0
Vizagapatam	5,388 4 0
Godávari	84 0 0
Kistna	42,000 0 0
Nellore	431 0 0
Cuddapah	880 0 0
Kurnool	120 0 0
Bellary	10 2 0
Anantapur	..
Nílgiris	210 14 0
Grand Total ..	50,846 3 0

ANNUAL FORM No. 59-A.

Forest Department, Madras, Northern Circle..

Area of Reserved Forests, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ganjam ..	Chokapad..	Dhimrijoli	..	..	5,486	..	5,486	8½	No. 414 of 16th December 1887.	
		Total, Ganjam ..	..	..	5,486	..	5,486	8½		
Godávari.	Narsápur ..	Narsápur	..	..	114	..	114	..	No. 357 of 25th October 1887.	
		Total, Godávari ..	..	..	114	..	114	..		
Kistna ..	Bápatla ..	Lankavanidibba ..	..	..	4,480	..	4,480.	7	No. 17 of 17th January 1888.	
		Kottapalem	..	..	3,840	..	3,840	6	Do. do.	
		Total, Kistna ..	..	..	8,320	..	8,320	13		
Nellore	Ongole ..	Kottapatam plantations.	147	*..	..	..	147	..	....	* Rectification of area on actual remeasurement.
		Tummalapenta ..	100	..	..	..	100	..	....	
		Kanuparti	520	1	..	..	520	1	....	
		Ramapatam.. ..	60	..	..	..	60	..	....	
	Gúdúr ..	Dugarázpatnam plantations.	..	..	23,800	..	23,800	37	No. 258 of 8th July 1887.	
		Total, Nellore ..	827	1	23,800	..	24,627	38		
Cuddapah.	Kódúr ..	Kódúr plantation ..	50	..	..	..	50	..	....	
		Thunakonda ..	1,048	2	..	..	1,048	2	....	
		Uparapalle plantation.	108	..	..	..	108	..	....	
		Kódúr	7,440	11½	..	..	7,440	11½	....	
		Seshachellam ..	128,000	200	..	..	128,000	200	....	
		Settikunta	8,960	14	..	..	8,960	14	....	
	Pullampet ..	Salivendra	..	..	12,800	..	12,800	20	No. 323 of 9th September 1887.	
	Rájampet.	Pullampet plantation.	328	½	..	..	328	½	....	
		Mittamidapalle ..	98	..	..	..	98	..	....	
		Reddipalle	1,284	2	..	..	1,284	2	....	
		Vattálur hill ..	2,880	4½	..	..	2,880	4½	....	
	Ráyachóti	Sibyala	3,500	5½	..	..	3,500	5½	....	
		Tsundapalle ..	3,000	4½	..	..	3,000	4½	....	
		Gadikota	12,462	19½	..	..	12,462	19½	....	
	Sidhout	Kanomalapalle ..	4,435	7	..	..	4,435	7	....	
		Malliemkonda ..	..	..	10,240	..	10,240	16	No. 321 of 9th September 1887.	
	Cuddapah ..	Kamalápuram plantation.	485	1	..	..	485	1	....	
	Váyalpád ..	Yellutla	..	..	2,840	..	2,840	4½	No. 304 of 19th August 1887.	
	Badvél ..	Kavalakuntla, North	..	..	6,080	..	6,080	9½	No. 321 of 9th Sept. 1887.	
		Do. South.	..	..	3,840	..	3,840	6		
		Ganugapenta ..	..	..	14,080	..	14,080	22	Do. do.	
		Total, Cuddapah ..	174,078	272	49,880	..	223,958	350		
Anantapur.	Anantapur.	Anantapur plantation	131	..	..	..	131	..	....	
	Gooty ..	Khojjapalle ..	367	½	..	..	367	½	....	
	Penukonda.	Narsampalle ..	1,280	2	..	..	1,280	2	....	
		Kottakota	5,120	8	..	..	5,120	8	....	
	Hindupur ..	Somarazumalai ..	1,920	3	..	..	1,920	3	....	
		Total, Anantapur ..	8,818	13½	..	..	8,818	13½		
Nilgirs ..	Ootacamund.	Marliamund plantation.	17	..	..	..	17	..	....	
		Aramby	430	½	..	..	430	½	....	Marliamund, Therma topa and Nergodumund.
		Marliamund ..	194	..	..	..	194	..	....	

Area of Reserved Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris —*cont.*	Ootacamund—*cont.*	Cairn hill	559	1	..	..	559	1	....	Cairn hill, Fairlawns, Madanad and Bathri shola.
		Brooklands ..	177	¼	..	..	177	¼	....	
		Lovedale	296	½	..	..	296	½	....	Lovedale, Elk hill and Manjinikorai.
		Craigmore	299	½	..	..	299	½	....	
		Doddabetta	991	1½	..	..	991	1½	....	Mainalai, Doddahalla, Doddahalla sholas, Woodcock sholas and Kótagiri trace sholas.
		Snowdon	1,053	2	..	..	1,053	2	....	
		Jakuntha	370	½	..	..	370	½	....	
		Muthanad	420	1	..	..	420	1	....	
		Governor's shola ..	2,694	4½	..	..	2,694	4½	....	Governor's shola, Baikie, Cully, Ulnad, Crormund.
		Pykara	1,309	2	..	..	1,309	2	....	Pykara and Yemmaikal.
		Sandynala	818	1	..	..	818	1	....	
		Kengodu	415	½	..	..	415	½	....	
		Karpakan	391	½	..	..	391	½	....	
	Naduvatam.	Naduvatam sholas ..	1,501	2	..	..	1,501	2	....	Naduvatam, Ouchterlony, Terrace, Belleive and Carritt sholas.
		Vellingiri	643	1	..	..	643	1	....	
		Kadcoopa	1,622	2½	..	..	1,622	2½	....	
		Makurti	8,953	14	..	..	8,953	14	....	Nílgiri peak, Makurti peak, and Pichebettu.
		Northernhay ..	3,998	6	..	..	3,998	6	....	
		Naduvatam ..	..	..	4,834	..	4,834	8	No. 277 of 22nd July 1887.	
		Gadsbrook ..	..	..	230	..	230	1	No. 18 of 17th January 1888.	
		Cherambadi ..	..	..	1,983	..	1,983	3	Do. do.	
		Ammankaval ..	..	..	563	..	563	1	Do. do.	
	Melúr ..	Ithalar	460	1	..	..	460	1	....	Ithalar, Puthuhatti and Sillahalla.
		Devashola	215	½	..	..	215	½	....	Devashola (North and South).
		Balakola	935	1½	..	..	935	1½	....	Thalakad, Kothibenu, Melúr (West), Vugunthebettu, Maryland.
		Athigarahatti ..	34	..	..	..	34	..	....	
		Sutton shola ..	52	..	..	..	52	..	....	
		Commandu ..	993	1½	..	..	993	1½	....	
		Pembroke	122	..	..	..	122	..	....	
		Hulikal	6,411	10	..	..	6,411	10	....	
		Honnathalai ..	320	½	..	..	320	½	....	
		Rallia	189	½	..	..	189	½	....	Bettumand and Newman,
		Blackbridge ..	390	½	..	..	390	½	....	
		Coonoor peak ..	540	½	..	..	540	½	....	Coonoor peak, Bandy shola, Bleakhouse, Springfield and Sim's park.
		Lamb's rock ..	708	1	..	..	708	1	....	
		Tiger hill	328	½	..	..	328	½	....	Tiger hill and Brooklands.
		Ghât reserves ..	311	½	..	..	311	½	....	Town shola, River reserve, Ghât reserve.

Area of Reserved Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris—*cont.*	Coonoor—*cont.*	Hillgrove	187	½	..	..	187	½	....	Hillgrove and Benhope.
		Kullar	1,815	3	..	..	1,815	3	....	Kullar, Aduthore, Burliyar.
	Kótagiri ..	Kótagiri	563	1	..	..	563	1	....	Longwood, Nottshola, Kesalhada, Kunnavara and Karbetta.
	Mudumalai	Benne	10,317	16	724	..	11,041	17	No. 18 of 17th January 1888.	
		Moyar	13,238	21	342	..	13,580	21	No. 123 of 15th March 1887.	
	Sigúr ..	Kalhatti slopes ..	8,983	14	..	..	8,983	14	....	Singara, Kalhatti, Bockepuram.
		Ebanád	571	1	..	..	571	1	....	
	Kundahs.	Kundah	40,521	63	..	..	40,521	63	....	
		Mikkeru	1,267	2	..	..	1,267	2	....	
		Thiashola	1,551	2½	..	..	1,551	2½	....	
		Hiriyashige ..	2,175	3½	..	..	2,175	3½	....	
		Total, Nílgiris ..	120,346	188	8,676	..	129,022	202		
		Ganjam	..	..	5,486	..	5,486	8½	....	
		Godávari	..	..	114	..	114	..	....	
		Kistna	..	..	8,320	..	8,320	13	....	
		Nellore	827	1	23,800	..	24,627	38	....	
		Cuddapah	174,078	272	49,880	..	223,958	350	....	
		Anantapur	8,818	13½	..	..	8,818	13½	....	
		Nílgiris	120,346	188	8,676	..	129,022	202	....	
		Grand Total ..	304,069	474½	96,276	..	400,345	625		

Annual Form No. 59-B.

Forest Department, Madras, Northern Circle.

Area of reserved forests under previous orders for 1887-88.

District	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Godávari	Bhádrachallam	Pedda Nallapalli	640	1	..	..	640	1	..	
		Arlagudiem	1,920	3	..	..	1,920	3	..	
		Tunikicheruvu	2,560	4	..	..	2,560	4	..	
	Rékapalle	Bundereo	4,160	6½	..	..	4,160	6½	..	
		Erguralpalli	960	1½	..	..	960	1½	..	
		Sarival	3,840	6	..	..	3,840	6	..	
		Rapaka	5,120	8	..	..	5,120	8	..	
		Gamallakota	640	1	..	..	640	1	..	
		Ghandigudiem	1,920	3	..	..	1,920	3	..	
		Marsameddi	7,040	11	..	..	7,040	11	..	
		Sokanapalli	1,920	3	..	..	1,920	3	..	
		Pocharam	12,800	20	..	..	12,800	20	..	
		Total	43,520	68	..	..	43,520	68	..	
Kistna	Bezwáda	Kondapalli	8,320	13	..	..	8,320	13	..	
	Bápatla	Muthayyapalem	1,070	1½	..	..	1,070	1½	..	
	Palnad	Shrigiripadu	23,680	37½	..	..	23,680	37½	..	
		Motukúr	27,520	43	..	..	27,520	43	..	
		Madhinapadu	6,826	10½	..	..	6,826	10½	..	
	Vinukonda	Bollapalli	32,234	50½	..	..	32,234	50½	..	
		Total	99,650	156	..	..	99,650	156	..	
Nellore	Gudúr	Sriharikóta	46,402	72½	..	..	46,402	72½	..	
	Nellore, &c.	Nellore	46,862	73	..	..	46,862	73	..	
	Kandukúr	Ramapatam	22,880	36	..	39	22,841	36	..	* Transferred to form 59-A.
	Rapúr, Atmakúr, &c.	Veligondas	23,360	36½	..	..	23,360	36½	..	
		Total	139,504	218	..	39	139,465	218	..	
Cuddapah	Pullampet	Ballipalle, East	4,484	7	..	..	4,484	7	..	
		Do. West	6,307	10	..	..	6,307	10	..	
		Vagetikona	3,595	5½	..	..	3,595	5½	..	
		Yerraguntlakota	3,487	5½	..	..	3,487	5½	..	

Area of reserved forests under previous orders for 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Pullampet	Rallakonda	1,565	2½	..	..	1,565	2½	..	
		Gathala	9,682	15	..	..	9,682	15	..	
		Rolamadugu	5,424	8½	..	..	5,424	8½	..	
		Sullivendra	7,680	12	..	7,680	..	..	..	Transferred to form No. 59-A.
	Cuddapah and Ráyachóti.	Guvalacheruvu	14,720	23	..	..	14,720	23	..	
		Wongimalla	21,120	33	..	..	21,120	33	..	
	Ráyachóti and Pullampet.	Mudampad	8,960	14	..	..	8,960	14	..	
	Badvél	Nainapalle	15,360	24	..	..	15,360	24	..	
	Proddutúr	Ramesvaram	91	..	..	..	91	..	..	
		Thullamapuram	153	¼	..	..	153	¼	..	
		Vellala	258	½	..	..	258	½	..	
		Alladapalle	197	½	..	..	197	½	..	
		Paydala	99	..	..	..	99	..	..	
		Neduguvi	696	1	..	..	696	1	..	
		Kothapalli	120	¼	..	..	120	¼	..	
		Kalamalla	430	½	..	..	430	½	..	
		Modumidapalle	86	..	..	..	86	..	..	
		Anantapuram	138	¼	..	..	138	¼	..	
		Vallur	160	¼	..	..	160	¼	..	
	Jammalamadugu	Kondasankesala	858	1	..	..	858	1	..	
		Gandikota	372	½	..	..	372	½	..	
		Kosinipalle	300	½	..	..	300	½	..	
		Yamaveram	200	¼	..	..	200	¼	..	
		Dhodiem	589	1	..	..	589	1	..	
		Morupandi	756	1	..	..	756	1	..	
		Molamidakamboladinna	787	1	..	..	787	1	..	
		Aravetipalle	200	¼	..	..	200	¼	..	
		Devepalli	350	½	..	..	350	½	..	
		Pedda Dudiala	300	½	..	..	300	½	..	
	Kadiri	Nigadi	19,000	30	..	..	19,000	30	..	
		Malakavemula	5,500	8½	..	..	5,500	8½	..	
		Kondagamerla	2,700	4	..	..	2,700	4	..	
		Tummala	2,500	4	..	..	2,500	4	..	
		Kokanti	2,000	3	..	..	2,000	3	..	
		Gorivikanama	18,000	28	..	..	18,000	28	..	
	Madanapalle	Rekkalakonda	1,200	2	..	..	1,200	2	..	
		Mallayakonda	2,200	3½	..	..	2,200	3½	..	
		Kosuvaripalle	1,400	2	..	..	1,400	2	..	
		Sompalle	800	1½	..	..	800	1½	..	
		Horsleykonda	9,630	15	..	..	9,630	15	..	

Area of reserved forests under previous orders for 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Váyalpád	Yellutla	3,500	5½	..	2,840	660	1	..	Transferred to form No. 59-A.
		Nadimcherla	2,000	3	..	..	2,000	3	..	
		Váyalpád	3,700	5½	..	..	3,700	5½	..	
		Ankalammakonda	2,800	4	..	..	2,800	4	..	
		Gorantlapalle	4,000	6	..	..	4,000	6	..	
		Total ..	190,454	297	..	10,520	179,934	280½		
Bellary ..	Bellary	Malpangudi	700	1	..	..	700	1	..	
		Total ..	700	1	..	..	700	1	..	
Anantapur ..	Anantapur and Tadpatri.	Muchukota	2,994	5	..	..	2,994	5	..	
		Total ..	2,994	5	..	..	2,994	5	..	
Nílgiris ..	Munanad	Benne	563	1	..	563	..	..	..	Transferred to form No. 59-A.
	Tódanád	Sigúr	25,600	40	..	..	25,600	40	..	
	Paranginád	Coonoor	143	..	..	..	143	..	..	Includes Black bridge, Bleakhouse and Bandy shola plantations.
		Total ..	26,306	41	..	563	25,743	40	..	
		Godávari	43,520	68	..	..	43,520	68	..	
		Kistna	99,650	156	..	..	99,650	156	..	
		Nellore	139,504	218	..	39	139,465	218	..	
		Cuddapah	190,454	297	..	10,520	179,934	280½	..	
		Bellary	700	1	..	..	700	1	..	
		Anantapur	2,994	5	..	..	2,994	5	..	
		Nílgiris	26,306	41	..	563	25,743	40	..	
		Grand Total ..	503,128	786	..	11,122	492,006	768½		

Annual Form No. 59 C.

Forest Department, Madras, Northern Circle.

Area of reserved lands for 1887-88.

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ganjam	Bodo Borosinghi	Kaliamba	5,200	8	..	..	5,200	8		
		Teleki	15,200	24	..	..	15,200	24		
		Baibali	21,920	34	..	..	21,920	34		
		Venjagiri	6,000	9	..	..	6,000	9		
		Malati	1,720	3	..	..	1,720	3		
	Chokapad	Rogoda	16,000	25	..	..	16,000	25		
		Darpangia	16,160	25	..	..	16,160	25		
		Rambha	9,300	15	..	..	9,300	15		Transferred to form No. 59 A.
		Gullery	23,860	37	..	..	23,860	37		
		Koolada	2,760	4	..	..	2,760	4		
		Dimrijoli	5,486	8½	..	5,486	..	..		
	Gayagonda	Ambazara	32,000	50	..	..	32,000	50		
		Chodiapalli	960	2	..	..	960	2		
		Chondorgiri	18,320	29	..	..	18,320	29		
		Gunduribadi	12,200	19	..	..	12,200	19	Notification No. 199 of 13th Oct. 1884.	
		Gogoda	15,240	24	..	..	15,240	24	Bd.'s Procs., No. 3688/F. 360 of 29th Oct. 1884.	
	Jaggannadhaprasad.	Paichalia	13,760	22	..	..	13,760	22		
		Brahmanosai	8,080	13	..	..	8,080	13		
		Jagannathprasad	26,200	41	..	..	26,200	41		
		Panchbuthi	10,000	16	..	..	10,000	16		
		Kurcholi	10,400	16	..	..	10,400	16		
	Buguda	Kriyambi	28,280	44	..	..	28,280	44		
		Sandusalya	2,000	3	..	..	2,000	3		
		Bodochendana	800	1	..	..	800	1		
		Vishnuchakram	4,860	8	..	..	4,860	8		
		Bondagocha	4,400	7	..	..	4,400	7		
		Dhougam	2,400	4	..	..	2,400	4		
	Pondokol	Pipalaponka	7,700	12	..	..	7,700	12		
		Mundapitta	6,880	11	..	..	6,880	11		
		Hukuma	4,160	7	..	..	4,160	7		
		Raipada	6,700	11	..	..	6,700	11		
	Berhampore	Ramogoda	1,425	2	..	..	1,425	2	Notification No. 311 of 2nd Nov. 1885.	
		Bainamari	1,375	2	..	..	1,375	2	Bd.'s Procs., No. 3129/F. 623 of 16th Nov. 1885.	
		South Mohiri	2,600	4	..	..	2,600	4		
		Bollibogada	261	1	..	..	261	1	Fuel and fodder reserves. Bd.'s Procs., F. No. 285 of 20th May 1887.	

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Ganjam—*cont.*	Berhampore—*cont.*	Balakristnapuram	164	..	..	..	164	..	Fuel and Fodder Reserves. Bd.'s Procs., No. F. 285 of 20th May 1887.	
		Chatrapur	695	1	..	..	695	1		
		Dura	279	1	..	..	279	1		
		Golabondo	379				379			
		Podhara	760	1	..	..	760	1		
		Mushidipalem	238	..	..	..	238	..		
		Kusimi	625	1	..	..	625	1		
		Bendaliya	163	..	..	..	163	..		
		Mohoda	419	1	..	..	419	1		
		Mushiyakalli	522	1	..	..	522	1		
		Ankusopuram	138	..	..	..	138	..		
		Mohughora	1,697	2	..	..	1,697	2		
		Maharlapalli	924	2	..	..	924	2		
		Virakrishnachandrapuram	445	1	..	..	445	1		
		Godo hill	225	..	..	..	225	..		
		Jorono hill	1,002	2	..	..	1,002	2		
		West Batukamarada ..	179	..	..	..	179	..		
		Nimmapuram	697	1	..	..	697	1		
		Sikharapuram	260	1	..	..	260	1		
		Shapuram	142	..	..	..	142	..		
		Total ..	354,560	556½	..	5,486	349,074	548		
Vizagapatam	Sarvasiddhi	Peddapalli	..	..	5,000	..	5,000	8	Notification No. 342 of 14th Nov. 1885. Bd.'s Procs., No. 3422/F. 692 of 19th Dec. 1885.	
		Total ..	..	..	5,000	..	5,000	8		
Godávari	Peddapur	Raguvapatnam	12,160	19	..	..	12,160	19		
		Sullanka	17,920	28	..	..	17,920	28	Notification No. 448 of 23rd Nov. 1886. Bd.'s Procs., F. No. 681 of 17th Dec. 1886.	
		Anantavaram	8,320	13	..	..	8,320	13		
		Tótapalle	3,520	5	..	..	3,520	5		
		Oligogola	20,800	32	..	..	20,800	32		
		Ramasaram	..	..	2,500	..	2,500	4	Notification No. 213 of 23rd May 1887. Bd.'s Procs.,	
	Rajahmundry ..	Devancheru	5,000	8	..	..	5,000	8	Notification No. 308 of 26th July 1886. Bd.'s Procs., F. No. 441 of 21st Aug. 1886.	
	Bhadráchalam ..	Malkanapalle	5,300	8	..	..	5,300	8	Notification No. 18 of 19th Dec. 1885. Bd.'s Procs., No. 166/F. 27 of 21st Jan. 1886.	Abandoned. G.O., No. 739 of 29th July 1887.
		Chintagura	2,500	4	..	2,500	..	..		
		Dumagudiem	9,200	15	..	..	9,200	15		
		Arlagurem	7,000	11	..	..	7,000	11		
		Tunkicheruvu	13,800	22	..	..	13,800	22		
		Bhadráchalam	12,700	20	..	..	12,700	20		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Godávari—*cont.*	Bhadráchalam—*cont.*	Gogubaka	2,000	3	..	..	2,000	3		
		Komanpalle	4,400	7	..	..	4,400	7		
		Bandreo	10,900	17	..	..	10,900	17		
		Golagupa	8,500	13	..	..	8,500	13		
		Narakonda	7,500	12	..	..	7,500	12		
		Pengha	4,600	7	..	..	4,600	7		
		Upanapalle	3,300	5	..	..	3,300	5		
		Tatlunka	12,600	20	..	..	12,600	20		
		Ramchandrum	10,300	16	..	..	10,300	16		
		Rapak	8,000	12	..	..	8,000	12		
		Sitarampuram	3,000	5	..	..	3,000	5	Notification No. 18 of 19th Dec. 1885.	
		Bhandarguriam	7,100	11	..	..	7,100	11	Bd.'s Procs., No. $\frac{166}{F.\ 27}$ of 21st January 1886.	
		Burkankota	1,500	2	..	..	1,500	2		
		Kaler	6,500	10	..	..	6,500	10		
		Nialakota	2,700	4	..	..	2,700	4		
		Lakewaram	7,200	11	..	..	7,200	11		
		Kanslur	7,000	11	..	..	7,000	11		
		Mitapalle	13,000	20	..	..	13,000	20		
		Pulsmamri	6,800	11	..	..	6,800	11		
		Walsugri	8,700	14	..	..	8,700	14		
		Rékapalle hills	107,700	168	..	..	107,700	168		
		Marigura	45,500	71	..	..	45,500	71		
	Ellore	Velagalapalle	..	..	2,560	..	2,560	4		
		Chintalapudi	..	..	2,560	..	2,560	4		
		Barrikonda	..	..	3,840	..	3,840	6		
		Erraguntapalle	..	..	9,600	..	9,600	15	Notification No 210 of 23rd May 1887. Bd.'s Procs., F. No. 347 of 18th June 1887.	
		Bandamcherla	..	..	6,400	..	6,400	10		
		Tadikalapudi	..	..	2,560	..	2,560	4		
		Ramasingavaram	..	..	1,920	..	1,920	3		
	Delta	Coringa	6,720	10½	..	..	6,720	10½	Notification No. 385 of 2nd November 1886. Bd.'s Procs., F. No. 607 of 6th Nov. 1886.	
		Narsápur	114	..	..	*114	..	..	Notification No. 416 of 10th Nov. 1886. Bd.'s Procs., F. No. 648 of 29th Nov. 1886.	* Transferred to Form No. 59 A.
		Upputer	..	..	10,000	..	10,000	15½	Notification No. 291 of 29th July 1887. Bd.'s Procs., F. No. 494 of 26th Aug. 1887.	
		Bendamurlunka	371	1	..	..	371	1	Notification No. 416 of 10th Nov. 1886. Bd.'s Procs., F. No. 648 of 29th Nov. 1886.	
		Total ..	414,225	646½	41,940	2,614	453,551	708		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Kistna	Bezváda	Kondapalle	33,722	52⅔	1,500	..	35,222	54½		
		Kottúr	7,593	12	..	..	7,593	12		
		Bezváda	1,216	2	..	256	960	1½	Notification No. 143 of 30th July 1884.	
		Gunadala	1,107	2	..	527	580	1	Bd.'s Procs., No. 2783/F. 236 of 11th Aug. 1884.	
		Budavada	7,740	12	..	2,620	5,120	8		
		Jaggayapeta	9,658	15	..	..	9,658	15		
		Gavaravaram	80	..	..	..	80	..	Notification No. 38, of 26th January 1885.	
		Ibrampatnam	24	..	..	..	24	..	Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Kondur	..	..	3,000	..	3,000	5	Notification No. 351 of 11th October 1887. Bd.'s Procs., F. 626 of 5th November 1887.	
	Guntúr	Kondavid	15,114	24	..	..	15,114	24		
		Tadepalle	2,800	4	..	..	2,800	4		
		Kuragallu	1,069	2	..	..	1,069	2		
		Nidamarru	581	1	..	..	581	1		
		Narakodur	811	1	..	..	811	1		
		Karlapudi	913	1	..	354	559	1		
	Krósúr	Venkatayapalem	46,201	72	..	..	46,201	72		
		Bellamkonda	1,990	3	..	315	1,675	2½	Notification No. 143 of 30th July 1884.	
		Nevalipuri	11,870	19	..	..	11,870	19	Bd.'s Procs., No. 2783/F. 236 of 11th Aug. 1884.	
		Konanki	4,602	7	..	1,002	3,600	5½		
	Vinukonda	Bollapalli	37,712	59	..	..	37,712	59		
		Guttikonda	42,241	66	..	..	42,241	66		
		Kakerali	28,864	45	..	..	28,864	45		
	Palnad	Madinapadu	9,960	16	..	360	9,600	15		
		Pasuvemula	22,782	36	..	..	22,782	36		
		Kollagunta	34,947	55	..	..	34,947	55		
		Gungalagunta	24,514	38	..	..	24,514	38		
		Mutkur	31,408	49	..	..	31,408	49		
		Tumerikodu	23	..	..	..	23	..	Notification No. 38 of 26th January 1885. Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Muthayapalem	9,842	15	..	..	9,842	15	Notification No. 143 of 30th July 1884. Bd.'s Procs., No. 2783/F. 236 of 11th Aug. 1884.	
	Bápatla	Pandhillapalle	164	1	..	..	164	1	Notification No. 38 of 26th January 1885. Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Wardaravu	70				70			
		Anumillipeta	26				26			
		Nayani palli	156				156			
		Chirala	15				15			
		Bapatla No. I	274				274			
		Do. ,, II	..	..	840	..	840	1	Notification No. 350 of 11th October 1887. Bd.'s Procs., F. No. 626 of 5th Nov. 1887.	

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Kistna—*cont.*	Bapatla—*cont.*	Karlapalem, No. I	107	1	..	..	107	..	Notification No. 38 of 26th Jan. 1885.	* Transferred to Form No. 59 A.
		Do. ,, II	268				268	1	Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Vedhullapalle	166				166	..		
		Kothapalem, No. I	3,840	6	..	* 3,840	..	..	Transferred to Form No. 59 A.	
		Do. ,, II	..	..	3,100	..	3,100	5	Notification No. 350 of 11th Oct. 1887. Bd.'s Procs., F. No. 626 of 5th Nov. 1887.	
		Lankavanidibba	4,480	7	..	* 4,480	..	..	Transferred to Form No. 59 A.	
		Adavuladivi	..	..	610	..	610	1	Notification No. 350 of 11th Oct. 1887.	
		Dindi	..	..	1,000	..	1,000	2	Bd.'s Procs., F. No. 626 of 5th Nov. 1887.	
	Bandar	Yellichettidibba	7,680	12	..	..	7,680	12	Notification No. 91 of 8th Feb. 1887. Bd.'s Procs., F. No. 74 of 10th Feb. 1887.	
		Nachugunta	11,520	18	..	..	11,520	18		
		Sorlagundi	10,240	16	..	..	10,240	16		
		Gollapalem	200	½	..	..	200	½	Notification No. 38 of 26th Jan. 1885. Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Kodur	38		..	..	38			
		Palakayatippa	4,480	7	..	..	4,480	7	Notification No. 91 of 8th Feb. 1887. Bd.'s Procs., F. No. 74 of 10th Feb. 1887.	
		Bandar Fort	8,000	12½	..	..	8,000	12½		
		Kara	20	..	..	..	20	..	Notification No. 38 of 26th Jan. 1885. Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Lakshmipuram	560	1	..	..	560	1	Notification No. 91 of 8th Feb. 1887. Bd.'s Procs., F. No. 74 of 10th Feb. 1887.	
		Bomminampadu	26	..	..	..	26	..		
		Vanudhuru	64	..	..	..	64	..		
		Vemavarampadu	16	..	..	..	16	..		
		Allinagaram	125	..	..	..	125	..	Notification No. 38 of 26th Jan. 1885.	
		Kanukollu	600	1	..	..	600	1	Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Mandavalle	20	..	..	20*	..	..	* Sold Bd.'s Procs., F. 19 of 12th Jan. 1888.	
		Rudravaram	20	..	..	20*				
		Karlapadu	20	..	..	20*				
		Total	442,579	691½	10,050	13,814	438,815	686		
Nellore	Kávali	Kávali	2,933	5	..	..	2,933	5	Bd.'s Procs., No. 3216/F. 647 of 24th Nov. 1885.	
		Do.	1,610	2½	..	..	1,610	2½		
		Rudrakota	1,800	3	..	..	1,800	3	Notification No. 97 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Maddurpad	1,000	2	..	..	1,000	2		
		Narayanapuram	1,600	3	..	..	1,600	3		
		Zammalapalem	1,280	2	..	..	1,280	2		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Name of forests.	Area on 1st April 1888.		Added during the year.	Excluded or transferd to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nellore—*cont.*	Kávali—*cont.*	Zaladanki (East and West)	900	1½	..	..	900	1½		
		Gattupalle	960	1½	..	..	960	1½		
		Kesavaram	1,800	3	..	..	1,800	3		
		China Annatur	2,000	3	..	..	2,000	3		
		Tummalapenta (North, South and West).	4,240	7	..	..	4,240	7		
		Gollapalem	960	1½	..	..	960	1½	Notification No. 97 of 15th Feb. 1887.	
		Talapalem	960	1½	..	..	960	1½	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Bitragunta	3,400	5	..	..	3,400	5		
		Nagalavaram	960	1½	..	..	960	1½		
		Zakkalapalle, Gúdúr	800	1	..	..	800	1		
		Chamadala	850	1½	..	..	850	1½		
		Manubolpad	1,120	2	..	..	1,120	2		
		Dundigam	500	1	..	..	500	1		
		Dharmavaram	200	½	..	..	200	½		
		Mungamore	..	..	5,000	..	5,000	7	Bd.'s Procs., F. No. 371 of 1st July 1887.	
		Kadanutla								
		Talapolliem								
		Kávali								
		Kolladinna								
		Musunur								
		Anamadugu								
		Chennayyapolliem								
		Tummalapenta								
		Rudrakóta								
	Udayagiri	Udayagiri Durgam	7,000	11	..	..	7,000	11	Notification No. 185 of 13th Oct. 1883. Bd.'s Procs., No. 3222 of 26th Oct. 1883.	
		Yerrakondas	2,500	4	..	..	2,500	4	Notification No. 238 of 22nd Aug. 1885. Bd.'s Procs., No. 2601/F. 496 of 9th Sep. 1885.	
		Udayagiri, East, and Aappsamudrum.	..	..	1,000	..	1,000	2	Notification No. 243 of 1st July 1887. Bd.'s Procs., F. No. 413 of 22nd July 1887.	
	Ongole	Chimakurthi	7,500	12	..	..	7,500	12	Notification No. 185 of 13th Oct. 1883. Bd.'s Procs., No. 3222 of 26th Oct. 1883.	
		Ongole	200	..	..	..	200	..	Notification No. 205 of 23rd Nov. 1883. Bd.'s Procs., 3781 of 14th Dec. 1883.	
	Gúdúr	Sríharikót and its outliers.	35,710	56	..	..	35,710	56	Notification No. 185 of 13th Oct. 1883. Bd.'s Procs., No. 3222 of 26th Oct. 1883.	
		Dugarázpatnam plantation	23,800	37	..	23,800	..	..	Transferred to Form No. 59-A.	
		Kottapatam plantation	385	1	..	..	385	1	Notification No. 205 of 23rd Nov. 1883.	
		Tamminapatnam do.	485	1	..	..	485	1	Bd.'s Procs., No. 3781 of 14th Dec. 1883.	
		Yellasari	2,080	3	..	..	2,080	3		
		Vellipad	720	1	..	..	720	1		
		Ipuru	450	1	..	..	450	1		
		Tamarapatam (West)	800	1	..	..	800	1	Notification No. 98 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Momidi	2,040	3	..	..	2,040	3		
		Ankulapatur	310	⅓	..	..	310	½		
		Pidatalapudi	800	1	..	..	800	1		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nellore—*cont.*	Gúdúr—*cont.* ..	Kadived (North and South).	880	1	..	..	880	1		
		Vodúr	720	1	..	..	720	1		
		Nellaballi	320	½	..	..	320	½		
		Chillakúr	480	½	..	..	480	½		
		Gudúr	2,400	4	..	..	2,400	4		
		Vendodu	700	1	..	..	700	1		
		Vedicherla	700	1	..	..	700	1	Notification No. 98 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Vendúr	300	½	..	..	300	½		
		Madamanúr	400	½	..	..	400	½		
		Idagali	480	1	..	..	480	1		
		Sarvepalle	2,880	4½	..	..	2,880	4½		
		Kanupur (East and West)..	3,200	5	..	..	3,200	5		
		Cherukumudi	640	1	..	..	640	1		
		Kottapatam	2,500	4	..	..	2,500	4		
		Utukúr Varni plantations..	472	½	..	..	472	½	Notification No. 205 of 23rd Nov. 1883. Bd.'s Procs., No. 3781 of 14th Dec. 1883.	
		Iskápalle	24	..	..	..	24	..		
		Marripad	1,760	3	..	..	1,760	3		
		Turimerla	640	1	..	..	640	1		
		Dagadarti	3,200	5	..	..	3,200	5		
		Kottapalle	4,480	7	..	..	4,480	7		
		Vavveru	4,160	6½	..	..	4,160	6½		
	Nellore	Amancherla (East and West)	1,440	2	..	..	1,440	2	Notification No. 99 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Dontali	1,280	2	..	..	1,280	2		
		Chemudugunta	320	½	..	..	320	½		
		Kakutúr	480	½	..	..	480	½		
		Nellore	2,560	4	..	..	2,560	4		
		Kondlapudi	1,440	2	..	..	1,440	2		
		Kandamúr	1,520	2½	..	..	1,520	2½		
		South Mopur	1,000	1½	..	..	1,000	1½		
		Allipuram	..	..	200	..	200	..	Notification No. 250 of 1st July 1887. Bd.'s Procs., F. No. 413 of 2nd July 1887.	
	Kanigiri	Kanigiri	1,500	2	..	..	1,500	2	Notification No. 205 of 23rd Nov. 1883. Bd.'s Procs., No. 3781 of 14th Dec. 1883.	
		Nandavanam	17,000	27	..	..	17,000	27	Notification No. 190 of 6th July 1885.	
		Vedullacheruvu	8,000	13	..	..	8,000	13	Bd.'s Procs., No. $\frac{2169}{F.\ 411}$ of 22nd July 1885.	
	Kandukúr	Chagollu	1,150	2	..	..	1,150	2		
		Buddapudi	640	1	..	..	640	1	Notification No. 96 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Chakicherla	320	½	..	..	320	½		
		Ramapatam	1,280	2	..	..	1,280	2		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nellore—*cont.*	Kandukúr—*cont.*	Ravúr	1,520	2	..	..	1,520	2		
		Mocharla, Chalamcherla	12,290	19	..	..	12,290	19	Notification No. 96 of 15th Feb. 1887.	
		China Laterapi	1,000	1½	..	..	1,000	1½	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Gudlúr	2,800	4½	..	..	2,800	4½		
	Rápúr	Turupupundla	960	1½	..	..	960	1½		
		Sydapuram	2,080	3	..	..	2,080	3		
		Chaganam	2,720	4	..	..	2,720	4		
		Vutukur	640	1	..	..	640	1		
		Turimerla	640	1	..	..	640	1		
		Tummalatalpur	3,680	6	..	..	3,680	6		
		Marlapudi	4,480	7	..	..	4,480	7		
		Potegunta	1,600	2½	..	..	1,600	2½		
		Paluru	400	1	..	..	400	1		
		Chikavolu	1,120	2	..	..	1,120	2		
		Cherlopalle	3,360	5	..	..	3,360	5		
		Potukonda	2,240	3½	..	..	2,240	3½		
		Guttikonda	160	..	..	..	160	..		
		Marellakonda	520	1	..	..	520	1		
		Venimabhi	2,080	3	..	..	2,080	3	Notification No. 100 of 15th Feb. 1887.	
		Nellapalle	1,840	3	..	..	1,840	3	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Kakulakonda	3,680	6	..	..	3,680	6		
		Yerragondas	17,000	26½	..	..	17,000	26½		
		Vavintaparti	1,280	2	..	..	1,280	2		
		Kummaragunta	480	1	..	..	480	1		
		Pulikollu	640	1	..	..	640	1		
		Magallur	720	1	..	..	720	1		
		Duggunta	960	1½	..	..	960	1½		
		Podalakur	1,920	3	..	..	1,920	3		
		Birdavolu	2,400	4	..	..	2,400	4		
		Vadlapudi	2,400	4	..	..	2,400	4		
		Marupúr	3,680	6	..	..	3,680	6		
		Toderu	800	1	..	..	800	1		
		Nernúr	2,400	4	..	..	2,400	4		
		Chittaluru	480	1	..	..	480	1		
		Ayyagaripalem	320	½	..	..	320	½		
		Griddalúr	..	..	500	..	500	1	Notification No. 506 of 5th July 1887. Bd.'s Procs., F. No. 413 of 22nd July 1887.	
	Atmakúr	Telugurayapuram	800	1	..	..	800	1		
		Turupkambhampadu	960	1½	..	..	960	1½	Notification No. 101 of 15th Feb. 1887.	
		Chegerla	1,120	2	..	..	1,120	2	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Shrikolanu	1,040	2	..	..	1,040	2		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nellore—*cont.*	Rápúr and Atmakúr ..	Rápúr Veligondas	27,000	42	..	..	27,000	42	Notification No. 164 of 10th June 1885.	
	Atmakúr and Udayagiri.	Udayagiri Veligondas ..	23,000	36	..	..	23,000	36	Bd.'s Procs., No. 1951/F. 365 of 2nd July 1885.	
		Bommavaram	..	..	1,500	..	1,500	2	Notification No. 247 of 1st July 1887.	
	Atmakúr and Nellore..	Prabhagiripatnam	..	..	1,000	..	1,000	2	Bd.'s Procs., F. No. 413 of 22nd July 1887.	
		Total ..	325,129	511	9,200	23,800	310,529	488		
Cuddapah..	Kodúr	Reddipalle plantation ..	516	1	..	* 516	..	..		
		Kodúr	2,160	3½	..	..	2,160	3½		
		Settigunta	960	1½	..	...	960	1½	Collector's notice, dated 7th March 1885.	
		Yerraguntlakota	6,400	10	..	..	6,400	10		
	Kodúr and Rájampet.	Salivendra	19,200	30	..	† 12,800	..	..		
		Chitvel	10,240	16	..	* 6,400	10,240	16	Do. do. ,, 6th ,, 1884.	
	Rájampet	Vattalur hill	320	½	..	* 320	..	..		
		Ananthasamudram ..	10,240	16	..	..	10,240	16	Collector's notice, dated 7th March 1885.	
		Sonipaya ghât	3,200	5	..	..	3,200	5		
	Kodúr, Rájampet, Ráyachóti and Váyalpád.	Seshachellam and Rollamadugu.	3,840	6	..	..	3,840	6	Do. do. ,, 6th ,, 1884.	
	Rájampet and Ráyachóti.	Gadikóta	3,538	6	..	..	3,538	6		
	Cuddapah, Ráyachóti and Sidhout.	Pálkonda	81,920	128	..	..	81,920	128	Notification of 11th June 1883.	
	Cuddapah, Ráyachóti and Pulivendla.	Idupalapaya	28,160	44	..	..	28,160	44	Bd.'s Procs., No. 1864 of 26th June 1883.	
	Badvél	Kavalakuntla	11,520	18	..	† 9,920	1,600	2½		
		Ganugapenta	17,280	27	..	† 14,080	..	..	Notification No. 54 of 14th March 1884.	
						* 3,200				
		Gopavaram	13,440	21	..	..	13,440	21	Bd.'s Procs., No. 1169/F. 60 of 31st March 1884.	
		Kottakota	38,400	60	..	..	38,400	60		
		Kalasapad	6,400	10	..	..	6,400	10	Notification No. 306 of 24th July 1886.	
		Sancherla	5,760	9	..	..	5,760	9	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Tsallagirigullá	1,280	2	..	..	1,280	2		
		Badvél	1,920	3	..	..	1,920	3	Collector's notice, dated 17th March 1885.	
	Badvél and Sidhout..	Ramapuram	7,680	12	..	..	7,680	12		
	Sidhout	Malliamkonda	14,080	22	..	† 10,240	..	..		
						* 3,840			Notification No. 306 of 24th July 1886.	
		Do. addition ..	1,280	2	..	..	1,280	2	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	

* Rectification of area at settlement. † Transferred to Form No. 59 A.

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah *cont.*—	Sidhout—*cont.* ..	Konárazpalle	9,600	15	..	..	9,600	15	Notification No. 54 of 14th March 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Vontimitta	5,760	9	..	5,760	..	..	Abandoned.	
		Turupukonda	30,080	47	..	..	30,080	47	Notification No. 306 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Ippakanama	1,600	2½	..	..	1,600	2½	Collector's notice of 7th March 1885.	
	Sidhout and Rájampet.	Kanakalakonda	6,400	10	..	..	6,400	10		
		Patur	7,680	12	..	..	7,680	12		
	Sidhout and Cuddapah.	Kanamalapalle	5,255	8	..	..	5,255	8		
	Sidhout, Cuddaph and Badvél.	Lankamala	112,640	176	..	..	112,640	176	Notification, No. 54 of 14th Mar. 1884.	
	Badvél and Proddutur.	Dasaripalle	66,560	104	..	..	66,560	104	Bd's Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Kanchalamoram	8,960	14	..	..	8,960	14		
	Ráyachóti ..	Sibyala	340	½	..	* 340	..	..		
		Tsundapalle	1,480	2½	..	* 1,480	..	..		
		Madhavaram	5,120	8	..	..	5,120	8		
		Vandadi hills	3,200	5	..	..	3,200	5		
		Brahmana Yerragudi ..	7,680	12	..	..	7,680	12	Collector's notice of 7th Mar. 1885.	
		Hassanapuram	23,040	36	..	..	23,040	36		
		Mudampad slopes	5,760	9	..	..	5,760	9	Notification No. 306 of 24th July 1886.	
		Wongimalla	10,880	17	..	..	10,880	17	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
	Ráyachóti and Váyalpád.	Urukonda	8,960	14	..	..	8,960	14		
	Ráyachóti, and Váyalpád Madanapalle.	Rekkalakonda	6,400	10	..	..	6,400	10		
	Váyalpád	Yellutla	7,680	12	..	† 2,840	4,840	7½	Notification No. 54 of 14th March 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Gajbujikona	320	½	..	..	320	½		
		Yerramoralajedu	3,680	5½	..	..	3,680	5½		
		Ankalammakonda	2,800	4	..	..	2,800	4		
		Nurukupalakonda	3,700	5½	..	..	3,700	5½		
		Doddipalle	2,560	4	..	..	2,560	4		
		Sorakayalapet	2,560	4	..	..	2,560	4		
		Peddamallela	3,200	5	..	..	3,200	5	Notification No. 306 of 24th July 1886. Bd's. Procs., F. No. 461 of 30th Aug. 1886.	
		Marella	7,680	12	..	..	7,680	12		
		Talakona	19,840	31	..	..	19,840	31		
		Bhakarapet	9,800	15	..	..	9,800	15		

* Rectification of area at statement.

† Transferred to Form No. 59 A.

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Cuddapah —*cont.*	Váyalpád and Madanapalle.	Tarigonda	6,400	10	..	..	6,400	10		
		Nurukupalakonda extension	5,120	8	..	..	5,120	8		
		Gutapoliem	2,560	4	..	..	2,560	4	Notification No. 54 of 14th Mar. 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Tavalam	5,120	8	..	..	5,120	8		
		Mahdanikonda	1,920	3	..	..	1,920	3		
		Pentzupad	1,920	3	..	..	1,920	3		
		Avalakonda	4,480	7	..	..	4,480	7	Notification No. 305 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Do. extension ..	3,840	6	..	..	3,840	6		
		Mudimadagu	1,920	3	..	..	1,920	3	Notification No. 54 of 14th Mar. 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Horsleykonda	9,630	15	..	..	9,630	15		
		Modugamala	2,560	4	..	..	2,560	4		
	Madanapalle ..	Malliakonda	2,200	3½	..	..	2,200	3½	Notification No. 305 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Malliakonda extension ..	640	1	..	..	640	1		
		Nallakonda, Kotamakonda and Errakasikonda.	3,840	6	..	..	3,840	6		
		Yeddalavaripalle	3,840	6	..	..	3,840	6		
		Pulikonda	2,560	4	..	..	2,560	4		
		Potapolu	640	1	..	..	640	1		
		Mudimadugu and Horsleykonda extension.	3,200	5	..	..	3,200	5		
		Kukarazupalle	2,560	4	..	..	2,560	4	Notification No. 54 of 14th Mar. 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Ishwaramala	15,360	24	..	..	15,360	24		
		Kokanti	2,000	3	..	..	2,000	3		
		Kadiri	10,240	16	..	..	10,240	16		
		Vellichelamala	2,560	4	..	..	2,560	4	Notification No. 305 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Do. extension ..	640	1	..	..	640	1		
		Therumaladevarakonda ..	9,600	15	..	..	9,600	15	Notification No. 54 of 14th Mar. 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Nigadi	19,000	30	..	..	19,000	30		
	Kadiri	Do. extension	640	1	..	..	640	1	Notification No. 305 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Kukkarazukonda	5,120	8	..	..	5,120	8	Notification No. 54 of 14th Mar. 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Tummala	25,600	40	..	..	25,600	40		
		Malakavemula	1,920	3	..	..	1,920	3		
		Tummalamala	6,400	10	..	..	6,400	10		
		Kondakomerla	3,200	5	..	..	3,200	5		
		Somarazumala (East) ..	1,280	2	..	..	1,280	2		
		Goduvelagala	1,920	3	..	..	1,920	3	Notification No. 305 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Mudupalajuvi	1,440	2	..	..	1,440	2		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah —*cont.*	Kadiri and Pulivendla.	Gorivikanama	28,800	45	..	..	28,800	45	Notification No. 54 of 14th Mar. 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Dorigulla	30,720	48	..	..	30,720	48		
	Cuddapah and Pulivendla.	Ganganapalle	57,600	90	..	..	57,600	90		
		Chelakampalle	9,600	15	..	..	9,600	15	Collector's notice of 3rd Mar. 1885.	
	Proddutur and Jammalamadugu.	Kondasankesula	4,480	7	..	..	4,480	7		
		Dubbudapalle	3,280	5	..	..	3,280	5		
		Dhodyem	2,720	4	..	..	2,720	4		
		Malaimdikambaladinne ..	3,440	5	..	..	3,440	5		
		Penner	640	1	..	..	640	1		
		Gandikota	9,920	15½	..	..	9,920	15½		
		Yamavaram	1,600	2½	..	..	1,600	2½		
		Kosinepalle	7,040	11	..	..	7,040	11		
		Nidiguvvi	2,880	4½	..	..	2,880	4½		
		Kondapuram	3,840	6	..	..	3,840	6		
	Jammalamadugu and Pulivendla.	Bhanukotamala	13,600	20	..	..	13,600	20		
	Jammalamadugu, Pulivendla and Cuddapah.	Mallela	5,120	8	..	..	5,120	8		
	Cuddapah	Kommaddi	1,600	2½	..	..	1,600	2½		
		Animela	1,920	3	..	1,920	..	..	Notification No. 304 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	Abandoned.
		Tummalur	3,200	5	..	..	3,200	5		
		Gonamakalapalle	1,280	2	..	..	1,280	2		
	Sidhout and Pullampet.	Kokaletikanama	14,420	22½	..	..	14,420	22½		
		Kothur	22,720	35½	..	..	22,720	35½		
	Pullampet	Gotimanikana	3,840	6	..	..	3,840	6		
		Badugantapalle	3,520	5½	..	..	3,520	5½		
		Cheyavaram	4,480	7	..	..	4,480	7		
		Avalapenta	960	1½	..	..	960	1½		
		Mushtiyeru	4,480	7	..	..	4,480	7		
		Kodivengamabhavi	2,400	4	..	..	2,400	4		
		Marriutla	6,400	10	..	..	6,400	10		
		Tippayapalle	960	2	..	..	960	2		
	Sidhout, Pullampet and Rayachóti.	Cheyer	11,360	18	..	..	11,360	18		
	Pullampet and Rayachóti.	Yerrakonda	8,320	13	..	..	8,320	13		
	Rayachóti and Cuddapah.	Reddlacheruvu	5,120	8	..	..	5,120	8		
		Total ..	1,135,079	1,772	..	73,656	1,061,423	1,656½		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Kurnool	Sirvel and Nandyál	Sirvel	128,000	200	..	..	128,000	200	Notification of 21st Apr. 1883. Bd.'s Procs., No. 1305 of 10th May 1883.	
	Nandyál and Nandikótkur.	Nandyál	192,000	300	..	..	192,000	300		
	Nandikótkur	Nandikótkur	256,000	400	..	..	256,000	400		
	Cumbum	Uyyalavada	448,000	700	..	..	448,000	700	Notification No. 198 of 17th Nov. 1883. Bd.'s Procs., No. 3729 of 10th Dec. 1883.	
	Cumbum and Márkápur	Cumbum								
	Márkapár	Márkápur								
	Cumbum	Northern Veligondas	19,200	30	..	..	19,200	30	Notification No. 199 of 17th Nov. 1883. Bd.'s Procs., No. 3729 of 10th Dec. 1883.	
		Southern do.	19,200	30	..	..	19,200	30		
		Western do.	10,880	17	..	..	10,880	17		
	Yerramalais	Ramallakota (East)	..	..	2,000	..	2,000	3	Notification No. 74 of 6th Mar. 1888. Bd.'s Procs., F. No. 154 of 28th Mar. 1888.	
		Ramallakota (West)	..	..	2,000	..	2,000	3		
		Lanjabunda	..	..	2,000	..	2,000	3		
		Yepalpaud	..	..	3,500	..	3,500	5½		
		South Dhone	..	..	4,000	..	4,000	6		
		North do.	..	..	10,000	..	10,000	16		
		Gadithemadugu	..	..	3,000	..	3,000	5		
		Total	1,073,280	1,677	26,500	..	1,099,780	1,718½		
Bellary	Kúdligi and Hospet.	Bandri	7,000	11	..	..	7,000	11	Notification No. 197 of 16th Nov. 1883. Bd.'s Procs., No. 3685 of 6th Dec. 1883.	
	Hospet	Gound	3,000	4¾	..	..	3,000	4¾		
		Hospet	5,000	8	..	..	5,000	8		
		Jog	4,000	6¼	..	..	4,000	6¼		
		Oblagudi	1,000	1½	..	..	1,000	1½		
		Tornagal	2,100	3¼	..	..	2,100	3¼	Notification No. 102 of 17th May 1884. Bd.'s Procs., No. 1849 / F. 129 of 2nd June 1884.	
	Bellary	Bellary	8,000	12½	..	..	8,000	12½	Notification No. 51 of 12th Mar. 1884. Bd.'s Procs., No. 1167 / F. 58 of 31st Mar. 1884.	
		Mincheri	4,000	6¼	..	..	4,000	6¼		
		Timmapuram	..	..	1,267	..	1,267	2	Notification No. 87 of 20th Mar. 1888. Bd.'s Procs., F. No. 168 of 9th Apr. 1888.	
	Kúdligi	Sherbi	3,000	4½	..	..	3,000	4½	Notification No. 174 of 13th Sept. 1884. Bd.'s Procs., No. 3374 / F. 304. of 26th Sept. 1884.	
		Gollalinganhalli	1,000	1½	..	..	1,000	1½		
		Tumergudi	2,500	4	..	..	2,500	4		
		Somalapur	1,000	1½	..	..	1,000	1½		
		Sunkadaikal	7,000	11	..	..	7,000	11		
		Shivpur	9,000	14	..	..	9,000	14		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Bellary—*cont.*	Adóni	Adóni (East and West) ..	5,000	8	..	..	5,000	8		
		Ganekolu	1,118	1¾	..	..	1,118	1¾		
		Badinahalli	792	1¼	..	..	792	1¼		
		Kotalam	681	1	..	..	681	1		
		Halekota	486	¾	..	..	486	¾		
		Sulakeri	1,342	2¼	..	..	1,342	2¼		
		Kupgul	4,650	7¼	..	..	4,650	7¼		
		Tungabhadra	4,633	7¼	..	..	4,633	7¼	Notification No. 175 of 16th Sept. 1884.	
		Halevy	1,145	1⅛	..	..	1,145	1⅛	Bd.'s Procs., No. 3422/F. 310 of 1st Oct. 1884.	
		Kósgi	2,970	4¾	..	..	2,970	4¾		
		Nandavaram	971	1½	..	..	971	1½		
		Ráyachóti	1,863	2¾	..	..	1,863	2¾		
		Kurimetla	3,341	5¼	..	..	3,341	5¼		
		Bunivasi	1,964	3¾	..	..	1,964	3¾		
		Kotakallu	2,569	4	..	..	2,569	4		
		Kudbur	2,952	4¾	..	..	2,952	4¾		
	Hadagalli and Harpanahalli.	Harada	18,000	28¼	..	..	18,000	28¼	Notification of 14th Jan. 1885.	
		Sogy	4,200	6½	..	..	4,200	6½	Bd.'s Procs., No. 253/F. 47 of 26th Jan. 1885.	
	Ráyadrug	Ráyadrug	6,000	9¼	..	..	6,000	9¼	Notification No. 150 of 21st May 1885.	
		Dharmapuri	3,600	5½	..	..	3,600	5½	Bd.'s Procs., No. 1617/F. 307 of 3rd June 1885.	
		Argupa	1,000	1½	..	..	1,000	1½		
	Alúr	Gummanur, (North and West)	..	..	248	..	248	1	Notification No. 65 of 20th Feb. 1888.	
		Do. (North and East)	..	..	332	..	332		Bd.'s Procs., F. No. 125 of 17th Mar. 1888.	
		Do. (North) ..	..	..	69	..	69			
		Total ..	126,877	198¾	1,916		128,793	201¾		
Anantapur.	Penukonda ..	Narasampalle	2,560	4	..	..	2,560	4		
		Ponukonda hill	1,600	2½	..	..	1,600	2½		
		Somandepalle	10,240	16	..	..	10,240	16		
		Yerlampalle	2,240	3½	..	..	2,240	3½	Notification No. 166 of 8th May 1886.	
		Mallapakonda	5,120	8	..	..	5,120	8	Bd.'s Procs., F. No. 291 of 26th May 1886.	
		Malukavemula	960	1½	..	..	960	1½		
		Nyalukota	7,680	12	..	..	7,680	12		
		Neredikonda	2,560	4	..	..	2,560	4		
	Muchukota ..	Muchukota	7,040	11	..	..	7,040	11	Notification No. 191 of 6th Oct. 1884. Bd.'s Procs., No. 3639/F. 354 of 22nd Oct. 1884.	

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Anantapur —*cont.*	Muchukota—*cont.*	Dadithota	1,920	3	..	..	1,920	3		
		Yellutla	5,120	8	..	..	5,120	8		
		Chillevaripalle	3,840	6	..	..	3,840	6	Notification No. 134 of 28th Feb. 1887. Bd.'s Procs., F.	
		Konakuntla	1,280	2	..	..	1,280	2		
		Nairjampali	1,920	3	..	..	1,920	3		
		Yellanur	320	½	..	..	320	½		
		Durgam	..	..	3,200	..	3,200	5	Notification No. 205 of 20th May 1887. Bd.'s Procs., F. No. 345 of 16th June 1887.	
		Kudair	..	..	4,480	..	4,480	7		
		Upparapalle	..	..	640	..	640	1		
	Hondupur	Amagondapoliem	16,360	25½	..	..	16,360	25½	Notification No. 166 of 8th May 1886. Bd.'s Procs., F. No. 291 of 26th May 1886.	
		Dokkalakonda	2,880	4½	..	..	2,880	4½		
		Yerrakonda	3,920	6	..	..	3,920	6		
	Dharmavaram	Guttur	3,200	5	..	..	3,200	5		
		Kaliyandrug (North and South).	960	1½	..	..	960	1½	Notification No. 8 of 22nd Dec. 1886. Bd.'s Procs., F. No. 31 of 26th Jan. 1887.	
		Ramgiri	10,240	16	..	..	10,240	16		
		Bhadrapur	3,200	5	..	..	3,200	5		
	Gooty	Yadaki	5,120	8	..	..	5,120	8	Notification No. 134 of 28th Feb. 1887. Bd.'s Procs.,	
		Peddadoddi	..	..	3,200	..	3,200	5	Notification No. 203 of 20th May 1887. Bd.'s Procs., F. No. 345 of 16th June 1887.	
		Jakkalacheruvu	..	..	3,200	..	3,200	5		
		Nagasamudram (North)	..	..	7,040	..	7,040	11		
		Do. (South)	..	..	2,560	..	2,560	4		
		Kuthurmala	..	..	7,680	..	7,680	12		
		Pamidi	..	..	640	..	640	1		
		Bhadrampalle	..	..	2,560	..	2,560	4		
		Marutla	..	..	11,520	..	11,520	18		
		Taramalla	..	..	8,960	..	8,960	14		
		Total	100,280	156½	55,680	..	155,960	243½		
Nilgiris	Ootacamund	Nanjanad	1,327	2	..	..	1,327	2	Collector's notice of 17th Nov. 1884.	
		Chemenguli	901	1½	..	..	901	1½		
		Fern Hill Shola	14	..	..	..	14	..	Notification No. 426 of 8th Nov. 1886. Bd.'s Procs., F. No. 646 of 29th Nov. 1886.	
		Addition to Fair Lawn's block No. I.	22	..	..	..	22	..		
		Do. to Dadabetta block No. II.	17	..	..	..	17	..		
		Do. to Dodahalla	10	..	..	..	10	..		
		Bilikal road	25	..	..	..	25	..		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nílgiris—*cont.*	Naduvatam	Naduvatam	4,869	8	..	*4,834	35	..	Notification No. 81 of 12th May 1883. Bd.'s Procs., No. 1568 of 2nd June 1883.	
		Devamalai	114	..	..	..	114	..	Notification No. 54 of 24th May 1885. Bd.'s Procs., No. 730/F. 141 of 4th March 1885.	
	Mudumalai	Benne addition	724	1	..	*724	..	..	Notification No. 56 of 20th Feb. 1885. Bd.'s Procs., No. 752/F. 146 of 5th Mar. 1885.	* Transferred to Form No. 59 A.
		Gadsbrook	230	1	..	*230	..	..		
		Cherambadi	1,983	3	..	*1,983	..	..		
		Ammankaval	563	1	..	*563	..	..		
		Nedunkottu	..	..	..	..	..	..		
	Sígúr	Sigúr	48,022	75	..	..	48,022	75	Notification No. 54 of 24th May 1885. Bd.'s Procs., No. 730/F. 141 of 4th Mar. 1885.	
	Coonoor	Honnathalai (South) ..	218	½	..	..	218	½		
		Bettumund	137				137			
		Rallia	382				382			
		Little Rallia	29				29			
		Rallia Shola	30	1	..	..	30	1		
		Halakarai	172				172			
		Tippakuchi	119				119			
		Billithitta	35				35			
		Dolphin	65				65			
		Guernsey	14	1	..	..	14	1		
		Kodamalai	15				15			
	Kótagiri	Neduhatti	509				509			
		St. Catherine's Fall ..	124				124			
		Constantia	35				35		Notification No. 168 of 20th April 1886. Bd.'s Procs., F. No. 293 of 28th May 1886.	
		Tuttapolliem	54				54			
		Gudakalhalla	299	1	..	..	299	1		
		Bettu, Nos. 1 and 2 ..	29				29			
		Kunnavara addition ..	97				97			
		Kanavatti	16				16			
		Deepdale	361	½	..	..	361	½		
		Gudakal	600				600			
		Clyffe	33	1	..	..	33	1		
		Yercaud halla	20				20			
		Konakarai slopes	1,864	3	..	..	1,864	3		
		Dodabetta	105				105			
		Shamrock	43	¼	..	..	43	¼		
		Bikkehatti	19				19			

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris—*cont.*	Kótagiri—*cont.*	Ittakal, Nos. 1 and 2	21		..	..	21			
		Mavada	211	¼	..	..	211	¼		
		Kuttada, Nos. 1 and 2	29		..	..	29			
		Vagapanai	2,648	4	..	..	2,648	4		
		Denad	2,072	3	..	..	2,072	3		
		Sundatti	124		..	..	124			
		Kunshola	159		..	..	159			
		Kirkanara, Nos. 1 and 2	24		..	..	24			
		Killatti	17		..	..	17			
		Hadumund	48	1	..	..	48	1		
		Uppatti	53		..	..	53			
		Doddakaru	62		..	..	62			
		Ullavanad Shola	57		..	..	57			
		Sinnathu shola	51		..	..	51		Notification No. 168 of 20th Apr. 1886.	
		Madanad	722	1	..	..	722	1	Bd.'s Procs., F. No. 293 of 28th May 1886.	
		Kadanad valley	294	½	..	..	294	½		
		Nedukaduhalla	908	1½	..	..	908	1½		
		Nedugula	89		..	..	89			
		Longwood reserve additions, Nos. 1 and 2.	31		..	..	31			
	Kullár	Addition to Kullar reserve No. I.	59	½	..	..	59	½		
		Addition to Kullar reserve No. II.	13		..	..	13			
		Benhope, No. 2	34		..	..	34			
		Jókkanare slopes	6,419	10	..	..	6,419	10		
		Kullár	388	½	..	..	388	½		
		Total	78,778	123	..	8,334	70,444	109		
	Abstract	Ganjam	354,560	556½	..	5,486	349,074	548		
		Vizagapatam	..	..	5,000	..	5,000	8		
		Godávari	414,225	646½	41,940	2,614	453,551	708		
		Kistna	442,579	691½	10,050	13,814	438,815	686		
		Nellore	325,129	511	9,200	23,800	310,529	488		
		Cuddapah	1,135,079	1,772	..	73,656	1,061,423	1,656½		
		Kurnool	1,073,280	1,677	26,500	..	1,099,780	1,718¾		
		Bellary	126,877	198¾	1,916	..	128,793	201¼		
		Anantapur	100,280	156½	55,680	..	155,960	243½		
		Nílgiris	78,778	123	..	8,334	70,444	109		
		Grand Total	4,050,787	6,332¾	150,286	127,704	4,073,369	6,367¼		

ANNUAL FORM No. 59 D.

Forest Department, Madras, Northern Circle.

Area of leased forests for 1887-88.

District.	Range.	Names of forests.	AREA ON 1ST APRIL 1887.		ADDED DURING THE YEAR.	EXCLUDED OR TRANSFERRED TO OTHER HEADS.	AREA ON 31ST MARCH 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Bellary ..	Sandúr	Sandúr	40,000	62½	..	..	40,000	62½		
Nílgiris ..	Mudumalai	Mudumalai	87,285	136	..	..	87,285	136		
		Total ..	127,285	198½	..	..	127,285	198½		

ANNUAL FORM No. 60.

Forest Department, Madras, Northern Circle.

Area of Plantations, 1887-88.

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Godávari	Narsápur	Rustambadu	24	4,153	..	..	24	4,153	Formed in 1866-67.
		Sitarampuram	26				26		
	Amalápuram ..	Bendamurlunka (old)	27	2,014	..	..	27	2,014	Do. in 1875-76.
		Do. (new)	20	1,144	..	84	20	1,312	Do. in 1882-83.
				* 84					*Rs. 84 was omitted in the returns for 1886-87.
		Total ..	97	7,395	..	84	97	7,479	
Kistna	Bandar	Karrimid	20	387	—(a) 6	..	14	387	(a) Rectification of area.
		Masulipatam sepoy lines	94	2,672	10	712	75	3,384	Commenced in 1885.
					—(b) 29				(b) Rectification of area.
	Gudiváda	Kodúr	40	234	..	..	40	287	
		Gopavanipalem	15	347	10	417	25	764	Commenced in 1886.
		Konkolu	137	1,419	..	170	137	1,589	
		Allinagaram	125	771	..	52	125	823	
		Korlapadu	20	229	..	..	20	229	
		Mandaralli	7	227	— 7	— 227	..	..	Sold.
		Iyawar Rudravaram	20		— 20				
		Bomminampadu	26	310	..	48	26	358	
		Vemarrapadu	16	272	..	..	16	272	
		Venudhuru	25	354	..	48	25	402	
	Bezváda	Ibrampatam	24	255	..	113	24	368	
	Krósúr	Gavaravaram	39	229	—(c) 9	57	30	286	(c) Rectification of area.
	Bápatla	Bápatla	19	564	2	72	21	636	
		Karlapalem	75	3,929	4	124	79	4,053	
		Vedhullapalle	13	440	..	27	13	467	
		Wardarevu	70	3,571	2	72	72	3,643	
		Nayanipalli	10	1,100	2	72	12	1,172	
		Pandhillapalli	12	438	2	72	14	510	
		Total ..	807	† 17,748	+ 32	+ 2,109	768	19,630	† Rs. 295 included, was omitted in the return for 1886-87.
					— 71	— 227			
Nellore	Gúdúr	Dugarázpatnam	515	37,348	100	2,015	615	39,363	Commenced in 1873.
		Kothapatnam	410	29,126	50	1,084	460	30,210	
		Tamminapatam	489	42,680	10	940	499	43,620	Do. in 1873.
		Chandrasikuppam	10	622	..	48	10	670	
	Nellore	Allipuram	39	9,287	..	..	39	9,287	Do. in 1873.
		Utukur	180	16,038	..	72	180	16,110	Do. in 1875.
		Varani	292	34,684	..	48	292	34,732	Do. in 1874.

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nellore—*cont.*	Atmakúr	Mamudur	9	1,434	..	..	9	1,434	
	Kávali	Tummalapenta	54	18,668	46	49	100	18,717	Commenced in 1873.
	Kandukúr	Ramayapatnam	40	19,506	20	49	60	19,555	
	Ongole	Kothapatnam	35	14,666	111	48	146	14,714	
		Kanuparti	20½	16,498	229½	48	250	16,546	Do. in 1873.
		Total ..	2,093½	2,40,557	566½	4,401	2,660	2,44,958	
Cuddapah	Kódúr	Kódúr	37	7,010	..	74	37	7,084	Commenced in 1865.
		Uparapalle	108	8,327	..	72	108	8,399	Do. in 1868-69.
		Reddipalle	925	13,232	..	72	925	13,304	Do. in 1869-70.
	Rájampet	Pullampet	426	7,964	..	72	426	8,036	Do. in 1871.
	Cuddapah	Kamalápuram	332	10,162	..	63	332	10,225	Do. in 1869.
	Kódúr	Arimanabunda	4	678	..	96	4	774	Do. in 1883-84.
		Pallegundalamadugu	30	228	..	..	30	228	Do. in 1886-87.
		Total ..	1,862	47,601	..	449	1,862	48,050	
Nílgiris	Ootacamund	Mudumalai	101	27,870	..	80	101	27,950	
		Benne							
		Northernhay	23	10,200	..	9	23	10,209	Old Sígúr plantation.
		Governor's shola	277	10,463	..	140	277	10,603	Includes the old plantations of Hoopatti, Andy, Sheffield, Cully, Choughatcully, Baikie and Madana. Commenced in 1880.
		Chemenguli	33	3,861	..	..	33	3,861	Commenced in 1879.
		Muthanad	95	6,694	..	19	95	6,713	Do. in 1880.
		Brooklands	10	328	..	..	10	328	Do. in 1862.
		Aramby	208	12,638	12	1,260	220	13,898	Do. in 1863, includes Koolie plantation.
		Marliamund	11	830	..	3	11	833	Do. in 1860.
		Snowdon	7	214	..	..	7	214	Do. in 1860.
		Cairn hill	152	10,766	8½	1,309	160½	12,075	Do. in 1877.
		Devashola	14	1,637	..	3	14	1,640	Do. in 1880.
		Blackbridge	56	1,921	..	..	56	1,921	Do. in 1874, includes Rock plantation.
		Bleakhouse	235	4,561	..	143	235	4,704	Do. in 1857.
		Bandyshola							
		Coonoor peak	202	6,054	8½	543	210½	6,597	Do. in 1872.
		Tippakutchi	35	783	..	..	35	783	Do. in 1882.
		Rallia	105	2,571	..	..	105	2,571	
		Lovedale	..	461	1½	390	1½	851	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nílgiris—*cont.*	Coonoor	Sim's park	..	625 (*a*)	2	406	2	1,031	(*a*) omitted in the last year's return.
		Ghât reserve	..	..	9	406	9	406	
	Kótagiri	Longwood	..	102 (*a*)	7	26	..	128	
		Kullar	..	1,615(*a*)	92½	1,424	92½	3,039	
	Ootacamund and Coonoor.	Municipal Assessment	..	..	..	1,752	..	..	
		Total ..	15,64	1,04,194	141	7,913	1,705	1,12,107	
CULTURAL OPERATIONS.									
Ganjam	Goomsur	Mojagodo	3½	642	..	78	3½	720	Formed in 1869-70.
		Total ..	3½	642	..	78	3½	720	
Vizagapatam	Pálkonda	Voni	25	451	..	390	25	1,460	
		Lakshmipuram	26	619	..		26	..	
		Total ..	51	1,070	..	390	51	1,460	
Kistna	Bezváda	Kondapalle	..	355	..	— 355	..	..	Given up as a failure. Experimental planting of rubber trees.
	Guntúr	Yerrapalem	..	93	..	— 143	..	..	
						+ 50			
	Bezváda	Bezváda	..	..	..	70	..	70	Planting of mahogany and soymida and sowings in trenches of seeds of various species. Experimental planting of Ceara rubber.
		Total ..	..	448	..	— 498	..	70	
						+ 120			
Nellore	Kávali and Kandukúr.	....	50	324	..	..	50	324	Miscellaneous sowings in forest and among prickly-pear.
	Gúdúr	Sríharikót	..	1,136	10	217	10	1,353	Sowing and planting of blanks in the natural jungle.
		Total ..	50	1,460	10	217	60	1,677	
Cuddapah	Cuddapah	Kamalápuram	10	..	— 10	..	..	..	Sown with babul in 1884-85, but failed.
		Do.	8	18	..	..	8	18	Sown with babul by goats and sheep in April 1885, March and August 1886.
		Do.	18	121	..	92	18	213	Sown with drisanam and vepa.
		Do.	42	56	50	42	92	98	Sown with 30,000 palmyras. Germinating well.

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.*	Cuddapah—*cont.*	Kamalápuram	5	3	— 5	— 3	..	..	Sowings in prickly-pear unsuccessful.
		Do.	3	17	..	30	3	47	Watering *Dalbergia sissu* seedlings planted in 1886.
		Do.	½	..	..	..	½	..	*Adenanthera pavoniana* planted in 1886 died; more were sown, but have not germinated. Edible cactus doing well.
		Appaiapalle	2	..	..	..	2	..	Sowings of vepa in prickly-pear.
		Do.	23	25	..	..	23	25	Sown with palmyras and drisanam; doing well.
		Do.	¼	..	..	4	¼	4	Watering *Adenanthera pavoniana* and *Livingstonia mansetiana* sown in March 1887.
	Rájampet	Pullampet	99	134	8	12	107	146	Sown with tangedu after ploughing.
	Kódúr	Reddipalle	7	3	..	..	7	3	Do. do.
		Balapalle west reserve evergreen forest 1, compartment 5-*b* ..	12	9	..	..	12	9	
		Balapalle working circle 1, compartment 6-*b*	30	62	..	183	30	245	Planted with red sanders, ironwood, satinwood, yellama and Hardwickia.
		Kódúr tope	7	7	— 7	— 7	..	..	Sown with tangedu seeds but failed.
		Ooparapalle	½	..	— ½	..	..	..	Various seeds dibbled in but failed.
		Pallagundamadu	..	..	25	62	25	62	Planted with mahogany, ironwood and blackwood.
		Sandakana	..	..	5	146	5	146	714 teak seedlings planted.
	Proddutur and Jammalamadugu.	Gandikota reserve	321	18	..	..	321	18	No planting in 1887-88.
		Pennér river bank near Proddutur	135	114	25	85	160	199	Sowing 25,000 palmyras.
	Váyalpád	Ankalammakonda	22	61	..	..	22	61	No planting in 1887-88.
		Nurukupalakonda	5	41	..	..	5	41	
	Kádiri	Nigadi	4	..	..	..	4	..	
	Madanapalle ..	Horsleykonda	2	..	— 2	..	..	..	Hill-side sown with sandalwood seed but failed.
		Do.	..	..	1¼	12	1¼	12	Planted with Acrocarpus, Eucalyptus and Cupressus seedlings.
		Do.	1	..	— 1	..	..	..	Hill-side sown with Hardwickia but failed.
		Basinikonda	..	..	¼	..	¼	..	55 vepa plants put out, only 17 still alive.

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.* ..	Madanapalle ..	Horsleykonda	1	39	..	..	1	39	Nurseries.
	Kódúr	Balapalle	2	659	..	373	2	1,032	
		Total ..	760	1,387	+ 114½ − 25½	+ 1,041 − 10	849	2,418	
Bellary	Hospet	Gandlavattugiri	4	..	..	..	4	..	
	Sandúr	Nayanahalli	10	..	..	..	10	..	
		Ramandrug nursery	..	..	..	56	..	56	
		Total ..	14	..	..	56	14	56	
		Total, Plantations ..	6,423½	4,17,495	668½	14,729	7,092	4,32,224	
		Total, Cultural operations ..	878½	5,007	99	1,394	977½	6,401	
		Grand Total ..	7,302	4,22,502	767½	16,123	8,069½	4,38,625	

FOREST DEPARTMENT.

Annual Form No. 61.

Forest Department, Madras, Northern Circle.

Annual statement of Topes.

District.	Taluk.	Number of topes.	Area.	Cost		Remarks.
				During year.	To end of year.	
			Acs.	Rs.	Rs.	
Ganjam ..	Berhampore	3	13			
	Goomsúr	1	83			
	Gumsúr and Suradá ..	..	1,063	724	922	Scattered trees in villages.
	Chicacole	3	5			
	Total ..	7	1,164	724	922	
Vizagapatam ..	Pálkonda	2	56	..	8	
	Total ..	2	56	..	8	
Godávari ..	Rámachandrapuram ..	8	30	..	..	
	Total ..	8	30	..	..	
Kistna	Bandar	2	9	* 119	596	In Masulipatam. * Of this Rs. 34 was spent during 1886-87.
	Gudiváda	1	5	58	265	
	Bezváda	1	4	48	238	
	Nandigáma	1	11	45	283	One tope of 5 acres was sold.
	Vinukonda	1	6	48	257	
	Narsaraopet	1	7	52	226	
	Sattenapalle	1	6	15	15	
	Bápatla	1	2	† 57	1,298	† Incurred during 1886-87.
	Répalle	1	1	..	..	
	Palnád	1	21	‡ 554	950	‡ Of this Rs. 72 was incurred during 1886-87.
	Peddamaddur	1	3	..	..	Taken over by this department under G.O., No. 234, of 22nd March 1888.
	Total ..	12	75	996	4,128	
Nellore	Gúdúr	11	124	..	3,206	
	Rápúr	15	183	..	8,533	
	Nellore	33	380	..	6,599	
	Atmakúr	3	12	..	4,420	
	Venkatagiri	9	130	..	2,793	
	Kávali	17	742	..	4,190	
	Udayagiri	4	29	..	2,665	
	Kandukúr	6	13	..	1,853	
	Kanigiri	5	19	..	1,408	
	Ongole	4	107	..	1,212	
	Podili	4	13	..	1,165	
	Total ..	111	1,752	..	38,044	
Cuddapah ..	Pullampet	§ 8	69	151	5,558	§ One tope omitted in 1886-87, is added.
	Sidhout	4	40	57	8,096	
	Badvél	6	63	112	2,679	
	Proddutur	2	32	..	1,710	
	Jammalamadugu ..	9	309	80	12,431	
	Pulivendla	10	638	157	4,882	
	Cuddapah	7	148	182	6,043	
	Kadiri	8	73	33	2,175	
	Madanapalle	8	68	178	6,410	
	Ráyachóti	5	95	8	1,623	
	Váyalpád	3	30	4	3,442	
	All	..	5,764	..	..	Scattered trees in villages. It is proposed to omit the area of 5,764 acres as the scattered trees on them cannot be called topes.
	Total ..	70	7,329	962	55,049	

Annual statement of Topes—*cont.*

District.	Taluk.	Number of topes.	Area.	Cost		Remarks.
				During year.	To end of year.	
			ACS.	RS.	RS.	
Kurnool ..	Rámallakót	7	66	..	839	
	Pattikonda	5	29	..	1,879	
	Koilkuntla	4	9	..	3,683	
	Nandikótkur	1	2	48	305	
	Nandyál	3	33	100	1,177	
	Sirvel	1	6	..	147	
	Cumbum	3	23	88	349	
	Márkápur	3	14	..	257	
	Total ..	27	182	236	8,636	
Bellary ..	Bellary	6	86	..	..	
	Kúdligi	4	9	..	..	
	Hadgalli	2	11	..	41	The difference of Rs. 189 is the cost incurred in 1886-87, which was omitted in Form No. 61.
	Harpanahalli	2	3	..	..	
	Alúr	11	101	40	88	
	Adóni	6	30	133	460	
	Total ..	31	240	173	589	
Anantapur ..	Anantapur	5	124	25	150	
	Gooty	10	184	50	98	
	Tadpatri	15	565	75	123	
	Dharmavaram	29	1,555	96	2,270	
	Hindupur	16	121	80	170	
	Penukonda	15	310	70	70	
	Madaksira	5	26	24	50	
	Total ..	95	2,885	420	2,931	
Nílgiris	Coonoor	1	2	..	625	Transferred to form No. 60.
	Total ..	1	2	..	625	
	Grand Total ..	364	13,715	3,511	1,10,932	

Annual Form No. 62.

Forest Department, Madras; Northern Circle.

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88.

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Ganjam .. Berhampore	Mohiri hills	18,880	479	18,880	650	18,230	127	606	1885	Specially protected.
Ganjam .. Kukuluba	Chondragiri and Ambazara ..	4,640	456	4,640	150	4,490	612	1,058	1885	Specially protected.
Ganjam .. Mojagodo	Baibali and Darpangia	21,775	125	21,775	22	21,753	883	1,008	1885	Specially protected.
	Total ..	45,295	1,060	45,295	822	44,473	1,622	2,682		
Godávari. Bhadráchalam ..	Rapak	12,600	..	7,000	7,000	..	..	..		
Godávari. Bhadráchalam ..	Rámachandram	10,300	..	10,000	1,920	8,080	..	..		
Godávari. Bhadráchalam ..	Tatlunka	800	..	12,000	2,560	9,440	..	..	1887	
Godávari. Rajahmundry ..	Devancheruvu	5,000	..	2,350	..	2,350	57	57		
Godávari. Rajahmundry ..	Kothapalle	21,700	..	21,000	16,000	5,000	41	41		
Godávari. Rajahmundry ..	Rámesvaram	..	..	1,300	..	1,300	..	..		
Godávari. Ellore	Barrikonda	..	..	3,840	200	3,640	..	..		Specially protected.
Godávari. Ellore	Bandamcherla	..	..	6,400	..	6,400	..	..		
Godávari. Ellore	Velagalapalle	..	..	2,560	..	2,560	..	..	1888	
Godávari. Ellore	Chintalapudi	..	..	2,560	..	2,560	..	..		
Godávari. Ellore	Ramasingavaram	..	..	1,920	..	1,920	..	..		
Godávari. Ellore	Tadikolapudi	..	..	2,560	..	2,560	..	..		
	Total ..	50,400	..	73,490	27,680	45,810	98	98		
Kištna .. Bezváda	Kondapalle	8,000	1,244	8,320	..	8,320	563	1,807	1884	
Kištna .. Vinukonda	Bollapalle	6,400	671	6,400	..	6,400	129	800		Specially protected.
Kištna .. Palnád	Mutukur	6,327	195	6,400	..	6,400	..	195	1885	
Kištna .. Palnád	Madhinapadu	1,920	192	1,920	..	1,920	112	304		
	Total ..	22,647	2,302	23,040	..	23,040	804	3,106		
Nellore .. Rápúr	Rápúr Veligondas	13,000	195	27,000	1,760	25,240	..	195		
Nellore .. Udayagiri	Udayagiri	8,000	70	23,000	1,600	21,400	376	446	1885	Ordinary staff.
Nellore .. Kanigiri	Kanigiri	34,000	..	25,000	1,200	23,800	..	..		
	Total ..	55,000	265	75,000	4,560	70,440	376	641		

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Cuddapah — Kódúr	Ballipalle (west)	6,307	1,584	6,307	..	6,307	305	1,889	1867	Specially protected.
	Do. (east)	6,460	1,691	8,960	500	8,460	374	2,065	1871	
	Kódúr hill	6,440	1,222	7,440	600	6,840	274	1,496	1874	
	Vagetikona	2,315	517	3,595	..	3,595	92	609		
	Yerraguntlakota	2,850	1,000	3,000	1,565	1,435	185	1,185	1873	
	Rallakonda	..	378	1,565	..	1,565	50	428	1879	
	Gadela	800	647	6,800	20	6,780	90	737	1874	
	Thanakonda	1,041	407	1,048	6	1,042	67	474		
Rájampet	Rollamadugu	5,424	244	5,424	..	5,424	65	309	1878	Ordinary staff.
	Srirangarazupallium	4,320	739	5,000	..	5,000	228	967	1883	Specially protected
	Vattalur hill	(*a*) 2,876	75	2,880	..	2,880	99	174	1887	Specially protected.
Kadiri	Nigadi	13,206	687	14,000	50	13,950	136	823	1881	
	Malakavemula	8,500	387	8,500	..	8,500	52	439		Ordinary staff.
	Kondakomerla	3,700	204	3,700	..	3,700	15	219		
	Thummala	..	227	2,495	..	2,495	..	227		
	Kokanti	2,000	184	2,000	..	2,000	15	199		
	Gorivikanama	18,000	209	18,000	..	18,000	..	209		
Madanapalle	Rekkalakonda	1,200	167	1,200	..	1,200	11	178		
	Mallayakonda	2,200	194	2,200	..	2,200	11	205		
	Kosuvaripalle	1,400	132	1,400	..	1,400	11	143	1881	
	Soampalle	800	98	800	..	800	..	98		
	Horsleykonda	9,030	479	9,630	..	9,630	103	582		Specially protected.
Váyalpád	Yellutla	3,500	207	3,500	..	3,500	18	225		Ordinary staff.
	Nadimcherla	2,000	201	2,000	..	2,000	18	219		
	Nurukuppalakonda	3,600	324	3,600	..	3,600	72	396		Specially protected.
	Ankalammakonda	2,000	311	2,000	..	2,000	79	390		
	Gorantlapalle	4,000	194	4,000	..	4,000	16	210		Ordinary staff.
Cuddapah	Mamillapalle	2,300	662	3,000	..	3,000	319	981		
Cuddapah and Ráyachóti.	Guvalacheruvu	600	591	7,600	..	7,600	226	817	1883	Specially protected.
Ráyachóti	Gadikota	4,000	685	12,480	1,000	11,480	154	839		
	Sibaala	3,500	10	3,500	..	3,500	38	48	1887	Ordinary staff.
	Tsundupalle	3,000	5	3,000	..	3,000	23	28		
Sidhout	Arapayakanama	2,500	498	10,000	10,000	..	293	791	1883	
	Kanamalapalle	1,110	191	4,435	..	4,435	437	628	1887	Specially protected.
Badvél	Kottakota	8,615	436	8,640	103	8,537	161	597	1885	
	Mudireddipalle	9,000	656	12,000	..	12,000	161	817	1883	
Proddutur	Rameswaram	91	29	91	..	91	..	29		Ordinary staff.
	Thalamapuram	153	34	153	..	153	..	34	1881	
	Vellala	258	34	258	..	258	..	34		
	Alladupalle	197	33	197	..	197	..	33		

(*a*) Omitted in the statement of 1886-87.

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Cuddapah —*cont.*	Proddutur—*cont.* .. Payadala	99	19	99	..	99	..	19		
	Nidijuvi	696	85	696	..	696	16	101		
	Kothapalle	120	19	120	..	120	..	19		
	Kalamalla	430	68	730	..	730	21	147		
	Jammalamadugu .. Kosinepalle	300	58							
	Proddutur .. .. Modanathipalle	86	18	86	..	86	..	18		
	Ananthapuram	138	19	138	..	138	..	19		
	Kallur	160	17	160	..	160	..	17		
	Kondasankesula	858	77	858	..	858	18	95		
	Gandikota	200	81	372	..	372	12	93	1881	Ordinary staff.
	Yamavaram	..	70	200	..	200	21	91		
	Dhodiem	(*b*) 589	43	1,345	..	1,345	16	102		
	Jammalamadugu .. Murupandi	(*c*) 756	43							
	Malamedikambaladinne	787	67	1,366	..	1,366	9	141		
	Kódúr	579	65							
	Aravetipalle	200	28							
	Denepalle	350	25	850	..	850	23	106		
	Peddadudiala	300	30							
	Total ..	1,55,935	17,405	2,03,418	13,844	189,574	4,334	21,739		
Kurnool ..	Atmakúr .. .. .. Atmakúr-Velgode	14,500	2,480	14,500	..	14,500	..	2,480	1884	Ordinary staff.
	Nandikótkur .. .. Bairluti	..	..	4,500	2,250	2,250	275	275	1887	Specially protected.
	Total ..	14,500	2,480	19,000	2,250	16,750	275	2,755		
Bellary ..	Sandúr .. .. .. Sandúr	2,750	1,093	2,750	..	2,750	166	1,259		
	Hospet	..	762	1,050	..	1,050	64	826		
	Venkatagiri	850	339	1,150	..	1,150	70	409		
	Gound	3,000	636	5,050	..	5,050	306	942	1883	
	Gurga	1,600	635	2,430	..	2,430	148	783		
	Kanavahalli	2,500	626	4,160	..	4,160	252	878		
	Dharmapur	2,150	404	2,150	..	2,150	130	534		Specially protected.
	Basapur	1,030	263	2,230	..	2,230	108	371		
	Konapur	360	260	1,960	..	1,960	95	355		
	Honsahatti	3,760	347	3,760	..	3,760	182	529	1885	
	Kakbal	3,240	347	3,240	..	3,240	157	504		
	Joga	1,400	345	2,440	..	2,440	118	463		
	Madarhalli	2,380	300	2,380	..	2,380	115	415		

(*b*) and (*c*).—The figures given in the statement of 1886-87 were wrong by 130 acres.

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Bellary—*cont.* — Sandúr—*cont.*	Yethinahatty	2,443	116	2,443	40	2,403	220	336		
	Basapur D.	419	20	419	..	419	40	60		
	Hosahalli	1,206	57	1,206	..	1,206	110	167		
	Muthakalpeta	1,342	63	1,342	..	1,342	122	185	1886-87	
	Appanahally	1,239	59	1,239	..	1,239	113	172		
	Obligundi	1,729	98	2,069	..	2,069	189	287		Specially protected.
	Lingathahally	486	23	486	..	486	45	68		
Western Range	Shivpur	9,000	412	9,000	..	9,000	92	504	1885	
Bellary	Sherbi	3,000	63	3,000	..	3,000	66	129	1886-87	
	Sunkadakal	7,000	13	7,000	..	7,000	86	99	1886-87	
	Malpangudi	700	287	3,000	302	2,698	146	433	1884	
Kúdligi and Hospet	Bandri	7,000	..	7,000	2,000	5,000	..	..	..	
Hospet	Gound	3,000	..	3,000	..	3,000	..	..	..	
	Hospet	5,000	..	5,000	640	4,360	..	..	..	
	Jog	4,000	..	4,000	..	4,000	..	..	..	
	Thornagal	500	..	2,100	..	2,100	..	..	..	
	Oblagundi	1,000	..	1,000	..	1,000	..	..	..	
Bellary	Bellary	1,000	..	8,000	600	7,400	..	..	..	
	Mincheri	4,000	..	4,000	..	4,000	..	..	..	
Kúdligi	Gollalinganahally	1,000	..	1,000	..	1,000	..	..	..	
	Tummurgudy	2,500	..	2,500	..	2,500	..	..	..	
	Somalapur	1,000	..	1,000	1,000	..	..	..	..	
Adóni	Adóni (west)	4,520	..	5,000	..	5,000	..	..	..	
	Do. (east)									
	Ganekola	1,118	..	1,118	..	1,118				
	Badanahatty	792	..	792	..	792	..	..	..	Ordinary staff.
	Kowtalam	681	..	681	..	681	..	..	..	
	Halikota	486	..	486	..	486	..	..	..	
	Sulakeri	1,342	..	1,342	..	1,342	..	..	..	
	Kupgal	4,650	..	4,650	..	4,650	..	..	..	
	Tungabhadra	4,633	..	4,633	..	4,633	..	..	..	
	Halvey	1,145	..	1,145	..	1,145	..	..	..	
	Kosgi	2,970	..	2,970	..	2,970	..	..	..	
	Nandavaram	971	..	971	..	971	..	..	..	
	Ráyachóti	1,863	..	1,863	..	1,863	..	..	..	
	Kurimetla	3,341	..	3,341	..	3,341	..	..	..	
	Bemivasi	1,964	..	1,964	..	1,964	..	..	..	
	Kotakallu	2,569	..	2,569	..	2,569	..	..	..	
Hadgalli and Harpanahalli	Kudbur	2,952	..	2,952	..	2,952	..	..	..	
	Harada	..	..	18,000	8,000	10,000	..	..	..	
	Sogy	..	..	4,200	..	4,200	..	..	..	
....	Ráydrug	6,000	..	6,000	..	6,000	..	..	..	
....	Dharmapuri	3,600	..	3,600	..	3,600	..	..	..	

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Bellary—*cont.*	Aduguppa	1,000	..	1,000	..	1,000	..	..	..	Ordinary staff.
Alúr	Gummanoor (north-west)	..	..	248	..	248	..	..	..	
	Do. (north-east)	..	..	332	..	332	..	..	..	
	Do. (north)	..	..	69	..	69	..	..	..	
Bellary	Timmapuram	..	..	1,267	..	1,267	..	..	..	
	Total ..	130,181	7,568	175,747	12,582	163,165	3,140	10,708		
Anantapur. Penukonda	Kottakota	620	815	5,120	80	5,040	207	1,022	1884	Specially protected.
Muchukota	Muchukota	15,949	2,433	16,000	..	16,000	599	3,032		
Hindupur ..	Amagondapolliam	15,360	677	15,360	..	15,360	218	895		
	Dokulkonda	2,880	33	2,880	..	2,880	50	83	1885	Fire patrols.
	Somarazmalai	1,920	58	1,920	..	1,920	26	84		
Penukonda ..	Narsimpalle	1,280	12	1,280	..	1,280	19	31	1886	
	Mallapakonda	4,609	8	5,120	..	5,120	48	56		
Dharmavaram	Guttur	..	..	3,200	..	3,200	67	67		
	Total ..	42,618	4,036	50,880	80	50,800	1,234	5,270		
Nilgiris .. Mudumalai	Mudumalai plantation	101	2,037	101	..	101	363	2,400	1883	Specially protected.
	Benne									
	Northernhay	23	686	23	..	23	51	737		
	Moyar	13,238	58	13,238	..	13,238	162	220		
	Singara	1,970	34	1,970	..	1,970	15	49		
	Bockepuram	2,008	34	2,008	..	2,008	15	49	1886	Ordinary staff.
	Kalhatti	5,005	34	5,005	..	5,005	15	49		
	Sigúr	48,022	34	48,022	..	48,022	29	63		
	Aramby	430	199	430	4	426	44	243	1883	Specially protected.
	Marliamund plantation	17	157	17	..	17	25	182		
	Do. Shola	..	..	75	..	75	26	26	1887	Ordinary staff.
	Governor's Shola	670	551	670	..	670	85	636		Specially protected.
	Cairn Hill	403	198	403	..	403	39	237		
	Pykara	844	102	844	..	844	18	120		Ordinary staff.
	Muthanad	457	211	457	..	457	34	245	1883	Specially protected.
	Snowdon	1,053	75	1,053	..	1,053	19	94		
Ootacamund	Dodabetta	23	69	23	..	23	5	74		Ordinary staff.
	Elk Hill	184	173	184	..	184	11	184		
	Lovedale (east)	127	14	127	..	127	7	21		
	Do. (west)	74	15	74	..	74	7	22		
	Ulnad	430	28	430	..	430	10	38		
	Dodabetta, Nos. I and II	773	7	773	..	773	6	13	1886	
	Woodcock, Nos. I, II and III ..	24	7	24	..	24	5	12		
	Kótagiri trace, Nos. I and II ..	51	7	51	..	51	5	12		
	Yemmaikal	211	20	211	..	211	10	30		

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Acs.	Acs.		
Nílgiris—*cont.*	Ootacamund—*cont.*									
	Sandynullah	818	14	818	..	818	10	24		Ordinary staff.
	Kengodu	415	14	415	..	415	10	24		
	Ebanád	571	29	571	..	571	7	36		
	Kadcoopa	1,622	14	1,622	..	1,622	6	20		
	Pichelbettu	1,668	14	1,668	..	1,668	6	20	1886	
	Ithalar	242	14	242	..	242	3	17		
	Puthuhatty	27	14	27	..	27	3	17		
	Nergodumund	55	14	55	..	55	25	39		Specially protected.
	Jakuntha	370	14	370	..	370	10	24		Ordinary staff.
	Honnathalai	320	43	218	..	218	9	52		
	Kullar	803	199	803	3	800	179	378		
	Aduthoré	760	108	760	56	704	36	144		
	Barliyár	126	86	126	..	126	40	126		
	Hulikal	2,280	249	6,411	..	6,411	72	321		
	Rallia	105	221	105	..	105	55	276		Specially protected.
	Lamb's rock	716	230	708	..	708	66	296		
	Commandu	993	115	933	10	923	9	124		Ordinary staff.
	Tiger hill	317	77	314	..	314	40	117		
	Ghât reserve	261	152	247	..	247	27	179		Specially protected.
	Coonoor peak	256	125	259	..	259	63	188		
	Hill grove	..	31	147	..	147	17	48	1883	
	Benhope	46	73	40	..	40	22	95		
	Sim's park and spring field	70	62	118	..	118	14	76		
	Bandy shola	111	55	111	..	111	16	71		
	Devashola (north and south)	214	94	214	..	214	3	97		Ordinary staff.
	Bleak house	56	56	52	..	52	14	70		Specially protected.
	River reserve	53	84	53	..	53	30	114		
	Black bridge	391	117	390	..	390	37	154		
	Town shola	11	45	11	..	11	2	47		
	Brooklands	14	47	14	..	14	2	49		
	Jakanare	..	50	6,419	..	6,419	33	83	1886	Ordinary staff.
	Kótagiri									
	Longwood	262	319	262	..	262	28	347	1885	
	Kunnavara	100	48	100	..	100	27	75		
	Kesalhada	156	41	156	..	156	27	68	1886	
	Kerbetta	12	35	12	..	12	13	48		
	Nott shola	8	31	8	..	8	29	60		
	Naduvatam									
	Naduvatam sholas	..	121	16,135	2,310	13,825	52	173	1885	
	South-East Wynaad reserves	..	63	..	..	..	39	102	1886	
	Kundahs									
	Kundahs	40,521	182	40,521	200	40,321	47	271	1885	
	Thiashola	1,551		1,551	35	1,516	18			
	Mikkeru	1,267		1,267	..	1,267	12			
	Heriyaslrige	2,175		2,175	10	2,165	12			
	Melúr									
	Pembroke	122	46	122	..	122	9	55	1886	
	Thalakad	231	37	231	4	227	8	45		

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Nilgiris—*cont.* Ootacamund	Fairlawns	..	..	89	..	89	32	32		Ordinary staff.
	Crurmund	..	..	421	..	421	10	10		
	Mukurty	..	..	1,323	..	1,323	7	7		Specially protected.
	Bilikal	..	..	25	..	25	28	28		
	Dodahalla	..	..	33	..	33	5	5		Ordinary staff.
Melur	Sillaballa	..	..	192	..	192	3	3		
Kótagiri	Kunjapany	..	..	12	..	12	5	5		Specially protected.
Coonoor	Newman	..	..	70	..	70	18	18		
Melur	Athigarahatty	..	..	34	..	34	6	6		Ordinary staff.
	Vegunthabettu	..	..	239	..	239	6	6		
	Kothibenu	..	..	350	..	350	6	6		
	Melur	..	..	35	..	35	20	20		
	Maryland	..	..	79	..	79	6	6		
	Bettumund	..	..	256	..	256	32	32		Specially protected.
	Pilloor slopes	..	..	2,332	..	2,332	72	72		
	Madanad	..	..	722	3	719	7	7		
	Vagapani	..	..	2,648	15	2,633	6	6		
	Denad	..	..	2,072	8	2,064	10	10	1887	
	Kengarai	..	..	..	..	..	4	4		
	Konakarai	..	..	1,863	20	1,843	7	7		
	Guernsey	..	..	13	..	13	15	15		
	St. Catherine's fall	..	..	123	..	123	4	4		
	Kulloor	..	..	388	..	388	4	4		
	Ittakul	..	..	21	..	21	8	8		
	Kuttada	..	..	29	..	29	8	8		
Kótagiri	Sham rock	..	..	43	..	43	4	4		Ordinary staff.
	Mavada	..	..	211	..	211	4	4		
	Deepdale	..	..	361	..	361	4	4		
	Kunnavara addition	..	..	97	..	97	4	4		
	Dodakaru	..	..	62	..	62	4	4		
	Nedugula	..	..	89	..	89	4	4		
	Chinnattee	..	..	51	..	51	4	4		
	Uppatti	..	..	53	..	53	4	4		
	Sundatti	..	..	124	..	124	4	4		
	Gundakal	..	..	562	5	557	4	4		
	Neduhatty	..	..	509	4	505	4	4		
	Total	136,234	8,133	178,525	2,687	175,838	2,566	10,699		
	ABSTRACT.									
Total ..	Specially protected	301,282	34,073	391,327	45,022	346,305	12,060	46,133		
	Ordinary staff	351,528	9,176	453,068	19,483	433,585	2,389	11,565		
	Grand Total	652,810	43,249	844,395	64,505	779,890	14,449	57,698		

ANNUAL FORM No. 63.

Forest Department, Madras, Northern Circle.

Prosecutions for breaches of Forest Rules during 1887-88.

District.	Cases pending from 1886-87.	New Cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ganjam ..	18	5	87	..	2	94	112	66	268	27	132	93	400	19
Vizagapatam.	8	1	206	3	6	216	224	149	232	59	196	208	428	16
Godávari ..	5	..	82	..	46	128	133	83	159	39	120	122	279	11
Kistna ..	26	5	170	3	52	230	256	169	286	67	128	236	414	20
Nellore ..	12	2	45	2	2	51	63	28	123	11	73	39	196	24
Cuddapah ..	11	5	184	39	2	230	241	201	617	29	108	230	725	11
Kurnool ..	3	..	104	1	19	124	127	85	204	41	102	126	306	1
Bellary ..	4	1	61	10	..	72	76	40	112	30	82	70	194	6
Anantapur ..	12	5	43	15	12	75	87	47	75	27	92	74	167	13
Nilgiris ..	4	3	12	..	14	29	33	20	46	9	22	29	68	4
Total ..	103	27	994	73	155	1,249	1,352	888	2,122	339	1,055	1,227	3,177	125

Cases compounded under section 55 of the Madras Forest Act.

														Amount for which cases were compounded.
														Rs.
Ganjam ..	..	..	3	..	..	3	3	3	3	..	..	3	3	11
Kistna ..	..	..	82	..	19	101	101	101	108	..	..	101	108	281
Nellore ..	..	..	19	..	1	20	20	20	194	..	..	20	194	139
Cuddapah ..	..	..	40	3	7	50	50	50	243	..	..	50	243	463
Kurnool ..	..	..	8	..	2	10	10	9	29	1	3	10	32	130
Bellary ..	..	..	4	..	..	4	4	4	10	..	..	4	10	24
Anantapur ..	..	..	12	3	..	15	15	15	59	..	..	15	59	72
Nilgiris ..	..	..	1	..	2	3	3	3	6	..	..	3	6	28
Total ..	..	..	169	6	31	206	206	205	652	1	3	206	655	1,148
														Cases pending at close of year.
Grand Total ..	103	27	1,163	79	186	1,455	1,558	1,093	2,774	340	1,058	1,433	3,832	125

ANNUAL FORM NO. 64.

Forest Department, Madras, Northern Circle.

Summary of revenue of the different districts, 1887-88.

Budget heads, receipts.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I.—Timber and other produce removed from the forests by Government Agency—												
(a) Timber	..	4,427	..	92	64	416	29,769	..	921	123	1,321	37,133
(b) Firewood and charcoal	..	61	..	..	102	32,655	7	1,004	1,743	3	21,942	57,517
(c) Bamboos	..	2	..	..	..	..	255	..	2,108	..	..	2,365
(d) Sandalwood	..	..	..	..	..	..	..	..	..	..	5,804	5,804
(e) Grass and other minor produce ..	..	8	..	..	3	2,607	1,258	56	47	439	502	4,920
II.—Timber and other produce removed from the forests by consumers or purchasers—												
(a) Timber	..	125	1,163	31,974	18,504	6,443	18,218	35,397	3,077	2,253	2,717	1,19,871
(b) Firewood and charcoal	..	11,057	2,513	6,015	7,702	2,869	46,584	15,400	4,321	1,268	3,534	1,01,263
(c) Bamboos	..	3,533	1,518	11,497	2,000	11	6,411	16,885	30	429	2,056	44,370
(d) Grazing and fodder grass	..	..	..	947	38,711	12,784	1,227	4,883	403	16	797	59,773
(e) Other minor produce	..	669	85	12,832	9,607	22,100	39,792	3,044	15,774	14,656	168	1,18,627
III.—Confiscated drift and waif wood	..	155	22	6,740	327	61	847	1,000	124	45	7	9,328
IV.—Revenue from forests not managed by Government	..	14	..	..	..	..	..	..	..	..	..	14
V.—Miscellaneous—												
(a) Fines and forfeitures	..	..	58	20	30	..	200	1	..	..	25	334
(b) Refunds	26	5	1	154	63	7	1	172	..	..	19	448
(c) Other sources	1	23	29	52	552	337	633	310	312	523	184	2,956
Total, Receipts ..	27	20,079	5,389	70,323	77,665	80,290	1,45,202	78,157	28,860	19,655	39,076	5,64,723

MADRAS,
5th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1887-88.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godâvari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I.—Timber and other produce removed from the forests by Government Agency—												
(*a*) Timber	..	6,469	..	211	4	407	16,258	..	103	4	790	24,246
(*b*) Firewood and charcoal	..	194	..	..	35	24,232	5	686	1,765	..	12,648	39,565
(*c*) Bamboos	..	383	..	..	..	..	257	..	578	..	..	1,218
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	3,067	3,067
(*e*) Grass and other minor produce	..	13	..	..	3	1,616	908	32	17	183	284	3,056
II.—Timber and other produce removed from the forests by consumers or purchasers	..	2,458	836	5,124	2,301	229	5,517	6,134	8	182	1,373	24,162
III.—Confiscated drift and waif wood	..	788	..	818	21	..	55	115	..	3	..	1,800
IV.—Revenue from forests not managed by Government	..	24	..	..	..	..	..	..	..	..	..	24
V.—Rent of leased forests, and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	10,000	..	3,500	13,500
VI.—Live stock, stores, tools and plant—												
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	..	7	..	..	..	..	..	..	..	..	1,329	1,336
(*c*) Stores, tools and plant	52	296	..	1,665	751	146	342	119	24	..	232	3,627
VII.—Communications and buildings—												
(*a*) Roads and bridges	..	1,091	..	735	124	..	2,520	..	207	..	2,202	6,879
(*b*) Buildings	..	3,751	..	450	100	94	2,069	7,128	385	51	576	14,604
(*c*) Other works	..	..	..	..	12	797	..	..	..	50	24	883
VIII.—Demarcation, improvement and extension of forests—												
(*a*) Demarcation	..	6,535	14	2,322	4,827	3,798	5,650	828	877	403	1,971	27,225
(*b*) Compensation for land and rights	..	..	..	448	2,000	1,283	4,326	140	296	77	80	8,650
(*c*) Surveys and working plans	190	656	..	215	51	240	..	..	..	..	33	1,385
(*d*) Plantations	7	802	390	84	3,062	4,618	2,452	236	229	420	7,913	20,213
(*e*) Protection from fire	..	1,622	..	98	804	376	4,334	275	3,140	1,234	2,566	14,449
(*f*) Other works	..	157	..	..	1,285	29	1,052	..	278	..	2,512	5,313
IX.—Miscellaneous—												
(*a*) Refunds	..	..	2	2	323	428	112	39	70	67	..	1,043
(*b*) Law charges	..	..	..	..	1	606	275	179	..	9	..	1,070
(*c*) Other charges	111	27	14	4	93	99	44	292	1	7	2	694
Total A.—Conservancy and works	360	25,273	1,256	12,176	15,797	38,998	46,176	16,203	17,978	2,690	41,102	2,18,009

MADRAS,
5th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1887-88.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godâvari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
B.—"*Establishments.*"	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. "Conservancy and Works"	360	25,273	1,256	12,176	15,797	38,998	46,176	16,203	17,978	2,690	41,102	2,18,009
I.—Salaries—												
(*a*) Conservators	12,500	..	..	..	..	..	..	..	..	..	..	12,500
(*b*) Superior officers	16,091	3,058	1,910	5,280	6,029	7,410	9,396	11,929	4,284	1,517	8,485	75,389
(*c*) Subordinate forest and depôt establishments	2,930	5,946	2,224	5,441	7,941	5,906	11,099	5,052	4,499	5,969	7,243	64,250
(*d*) Office establishments	13,197	2,110	698	1,243	1,732	1,996	2,425	1,283	958	1,195	2,053	28,870
(*e*) Deputation and special allowances.	..	..	..	..	..	..	..	..	..	..	..	..
II.—Travelling allowances—												
(*a*) Conservators	3,306	..	..	..	..	..	..	..	..	..	..	3,306
(*b*) Superior officers	3,511	647	502	1,440	1,786	2,024	1,691	3,120	1,531	228	1,807	18,287
(*c*) Subordinate forest and depôt establishments	906	1,992	666	1,751	2,184	1,269	2,897	1,419	822	1,529	1,965	17,400
(*d*) Office establishments	2,132	492	150	178	506	262	328	210	138	324	61	4,781
III.—Contingencies—												
(*a*) Stationery	23	..	..	4	1	36	..	3	..	..	..	67
(*b*) Carriage of tents and records ..	579	187	15	87	176	130	84	92	54	69	2	1,479
(*c*) Rents, rates and taxes	24	43	..	85	60	50	35	..	160	23	417	897
(*d*) Pay of police guards	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Official postage	759	199	91	260	322	308	352	388	122	158	114	3,073
(*f*) Sundries	1,771	168	175	331	432	568	587	304	235	128	531	5,430
Total B. "Establishments" ..	57,729	14,842	6,431	16,100	21,169	19,959	28,894	23,800	12,863	11,340	22,608	2,15,785
Grand Total of expenditure ..	58,089	40,115	7,687	28,276	36,966	58,957	75,070	40,003	30,841	14,030	63,710	4,93,794

MADRAS,
5th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM NO. 65.

Forest Department, Madras, Northern Circle.

Outstandings and Liabilities on account of Contractors and Disbursers for 1887-88.

District.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (outstandings).	By Department (liabilities).	
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator's office	..	4,183 12 10	4,183 12 10	42 6 10	4,335 1 3	4,377 8 1	193 11 3	..	
Two fifths of Examiner's office	..	465 11 9	465 11 9	0 6 6	489 7 7	489 14 1	24 2 4	..	
Forest Settlement-officer, Nellore, &c. ..	..	1,087 5 8	1,087 5 8	20 0 0	1,070 0 0	1,090 0 0	2 10 4	..	
Do. do. Kurnool, &c. ..	..	..	..	..	..	..	..	..	
Forest School, Dehra Dun	..	3,470 12 8	3,470 12 8	63 0 0	3,579 1 5	3,642 1 5	171 4 9	..	
Ganjam	..	32,432 13 5	32,432 13 5	2,627 8 3	33,471 2 10	36,098 11 1	3,665 13 8	..	
Vizagapatam	..	4,712 0 8	4,712 0 8	399 5 9	4,342 2 1	4,741 7 10	29 7 2	..	
Godávari	..	17,466 6 5	17,466 6 5	958 6 11	18,437 2 5	19,395 9 4	1,929 2 11	..	
Kistna	..	26,656 10 3	26,656 10 3	1,846 1 1	25,996 13 2	27,842 14 3	1,186 4 0	..	
Nellore	..	48,519 11 6	48,519 11 6	4,896 13 11	71,665 7 8	76,562 5 7	* 28,042 10 1	..	* Rs. 27,000 since adjusted in 1888-89.
Cuddapah	..	47,533 12 10	47,533 12 10	564 15 11	47,240 10 9	47,805 10 8	271 13 10	..	
Kurnool	..	20,516 4 3	20,516 4 3	1,668 13 1	20,961 14 0	22,630 11 1	2,114 6 10	..	
Bellary	..	13,473 12 0	13,473 12 0	438 14 5	13,261 11 11	13,700 10 4	226 14 4	..	
Anantapur	..	8,000 7 9	8,000 7 9	149 10 4	8,079 5 4	8,228 15 8	228 7 11	..	
Nílgiris	..	15,007 10 0	15,007 10 0	701 2 0	15,900 11 8	16,601 13 8	1,594 3 8	..	
Total ..	..	2,43,527 4 0	2,43,527 4 0	14,377 9 0	2,68,830 12 1	2,83,208 5 1	39,681 1 1	..	

MADRAS,
7th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Northern Circle.

Revenue received and outstandings on account of revenue during 1887-88.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Direction	Timber and other produce, &c.	..	27 7 9	27 7 9	27 7 9	..
Ganjam	Do. ..	0 11 7	21,730 7 1	21,731 2 8	20,079 11 4	1,651 7 4
Vizagapatam ..	Do. ..	..	5,388 11 3	5,388 11 3	5,388 11 3	..
Godâvari	Do. ..	..	70,323 3 6	70,323 3 6	70,323 3 6	..
Kistna	Do. ..	..	79,410 10 8	79,410 10 8	77,664 10 7	1,746 0 1
Nellore	Do. ..	3,587 11 10	76,777 15 9	80,365 11 7	80,290 1 7	75 10 0
Cuddapah	Do. ..	..	1,45,221 0 7	1,45,221 0 7	1,45,202 4 7	18 12 0
Kurnool	Do. ..	..	78,156 13 7	78,156 13 7	78,156 13 7	..
Bellary	Do. ..	2 4 4	28,859 6 9	28,861 11 1	28,859 7 1	2 4 0
Anantapur	Do. ..	..	19,655 2 1	19,655 2 1	19,655 2 1	..
Nîlgiris	Do. ..	1,281 15 5	38,031 10 11	39,313 10 4	39,075 6 5	238 3 11
	Total ..	4,872 11 2	5,63,582 9 11	5,68,455 5 1	5,64,722 15 9	3,732 5 4

ANNUAL FORM No. 67.

Forest Department, Madras, Northern Circle.

Financial results of the year 1887-88.

District.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY.		OTHER REVENUE.		FORMATION, PROTECTION AND IMPROVEMENT OF FORESTS.	TOTAL.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Ganjam	4,498	18,240	15,584	7,041	20,643	20,082	45,924
Vizagapatam	..	4,882	5,391	3,276	5,337	5,391	13,495
Godâvari	92	12,035	70,234	9,499	12,551	70,326	34,085
Kistna	169	10,819	77,499	8,203	23,753	77,668	42,775
Nellore	35,678	36,741	44,615	5,375	22,650	80,293	64,766
Cuddapah	31,289	32,652	1,13,916	13,862	34,365	1,45,205	80,879
Kurnool	1,060	12,547	77,100	15,847	17,418	78,160	45,812
Bellary	4,819	9,918	24,043	8,735	17,997	28,862	36,650
Anantapur	565	7,032	19,092	3,633	9,174	19,657	19,839
Nîlgiris	29,569	33,209	9,510	7,059	29,301	39,079	69,569
Total ..	1,07,739	1,78,075	4,56,984	82,530	1,93,189	5,64,723	4,53,794

MADRAS,
10th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 68.

Forest Department, Madras, Northern Circle.

Trees felled by Government Agency during the year 1887-88.

(Selection Fellings.)

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Ganjam	Gayagonda range (late Kukkuluba).	Sál	37	402	439	Converted into logs	399	399	40	Outturn 447 logs.
		Sajo	5	2	7	Do. do.	2	2	5	Do. 2 ,,
		Dhau	8	...	8	....	..	..	8	
		Miscellaneous	15	6	21	Converted into logs	6	6	15	Do. 13 ,,
		Bamboos	...	10,640	10,640	....	10,640	10,640	..	
	Chokapad range (late Mojjogodo).	Sál	..	818	818	Converted into logs	165	818	..	Do. 426 ,,
						Do. into poles	53			
						Do. into rafters ..	600			
	Bodoborosingi range (late Suradá).	Satin	..	42	42	Do. into logs	42	42	..	Do. 42 ,,
		Miscellaneous	..	19	19	Do. do.	19	19	..	Do. 19 ,,
		Bamboos	..	5,310	5,310	....	5,310	5,310	..	
		Total, Ganjam ..	65	17,239	17,304	....	17,236	17,236	68	
Godávari	Wuddagudiem range ..	Nallamaddi	144	..	144	Converted into logs	16	16	128	Outturn 40 logs
		Chiriman	14	..	14	Do. do.	8	8	6	Do. 13 ,,
		Konda tangedu (Ironwood) ..	184	16	200	Do. do.	46	46	154	Do. 96 ,,
		Miscellaneous	42	..	42	Do. do.	3	3	39	Do. 5 ,,
		Total, Godávari ..	384	16	400	....	73	73	327	
Kistna	Bandar range	Casuarina	..	30	30	Converted into logs	30	30	..	
		Total, Kistna ..	..	30	30	....	30	30	..	

It is explained by the Collector that the number of species as given under the opening balance is correct and that given under the closing balance of 1886-87 was found subsequently wrong.

Trees felled by Government Agency during the year 1887-88—*cont.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
Nellore	Varani plantation	Casuarina	..	47	47	Converted into poles	47	47	..	Outturn 200 poles.
		Total, Nellore ..	..	47	47	....	47	47	..	
Cuddapah	Kódúr range	Bamboos	..	12,184	12,184	Sold	12,184	12,184	..	
		Total, Cuddapah ..	..	12,184	12,184	....	12,184	12,184	..	
Anantapur ..	Gooty range	Palmyra	..	13	13	Sold	10	13	..	
						Converted into demarcation posts	3			
	Muchukota range	Do.	..	5	5	Sold	5	5	..	
		Total, Anantapur ..	..	18	18	....	18	18	..	
Nilgiris ..	Mudumalai range (Tippacadu and Benne).	Teak	..	222	222	Converted into poles and logs.	222	222	..	Outturn 324 poles, 14 logs.
		Blackwood	..	25	25	Do. do. ..	25	25	..	Outturn 2 logs, 23 poles.
		Vengai	..	28	28	Do. do. ..	28	28	..	Outturn 17 poles, 11 logs.
		Mutti	..	58	58	Do. do. ..	58	58	..	Outturn 122 poles, 13 logs.
		Miscellaneous	..	136	136	Do. do. ..	136	136	..	Outturn 3 logs, 202 poles.
	Ootacamund range—									
	Baikie reserve	Eucalyptus (Blue gum) ..	..	517	517	Do. fuel, &c. ..	517	517	..	Outturn 214 tons.
	Aramby	Do.	..	2,855	2,855	Do. do. ..	2,855	2,855	..	Do. 1,614 ,,
	Governor's shola	Do.	..	1,540	1,540	Do. do. ..	1,540	1,540	..	Do. 678 ,,
	Cairn hill	Do.	..	758	758	Do. do. ..	758	758	..	Do. 236 ,,
	Ulnad reserve	Do. and acacia ..	..	638	638	Do. do. ..	638	638	..	Do. 176 ,,
	Coonoor range—									
	Coonoor peak reserve ..	Do.	..	7,333	7,333	Do. do. ..	7,333	7,333	..	Do. 3,006 ,, and 1,929 drag poles.

Trees felled by Government Agency during the year 1887-88—*cont.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
Nílgiris—*cont.*	Coonoor range—*cont.*									
	Bleakhouse reserve	Eucalyptus	..	493	493	Converted into fuel, &c.	493	493	..	Outturn 91 tons and 380 drag poles.
		Acacia	..	128	128	Do. do.	128	128	..	Do. 41 tons.
	Bandyshola do.	Do.	..	120	120	Do. do.	120	120	..	Do. 146 ,,
		Acacia and blue gum	..	84	84	Do. do.	84	84	..	Do. fuel 81 tons, planks 51 and rafters 176.
	Lamb's rock reserve	Sholawood	..	3	3	Do. do.	3	3	..	Do. 6 tons.
	Kullar do.	Do.	..	480	480	Do. do.	480	480	..	Do. 456 ,,
		Total, Nílgiris	..	15,418	15,418	....	15,418	15,418	..	
	Abstract	Teak	..	222	222	....	222	222	..	
		Sál	37	1,220	1,257	....	1,217	1,217	40	
		Blackwood	..	25	25	....	25	25	..	
		Satinwood	..	42	42	....	42	42	..	
		Ironwood	184	16	200	....	46	46	154	
		Chiriman	22	..	22	....	8	8	14	
		Maddi	149	60	209	....	76	76	133	
		Vengai	..	28	28	....	28	28	..	
		Casuarina	..	77	77	....	77	77	..	
		Palmyra	..	18	18	....	18	18	..	
		Eucalyptus	..	13,857	13,857	....	13,857	13,857	..	
		Acacia	..	609	609	....	609	609	..	
		Miscellaneous	57	644	701	....	647	647	54	
		Bamboos	..	28,134	28,134	....	28,134	28,134	..	
		Total	449	44,952	45,401	....	45,006	45,006	395	

Annual Form No. 69.

Forest Department, Madras, Northern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam.	Chokapad Range (late Mojagodo.)	Sál logs ..	2,233	30,858	342	2,124	2,575	32,982	Sold to Harden and Co.	209	2,342	1,660	26,201	
									Taken to Russellkondah depôt.	540	3,119			
									Taken to Gopálpur depôt.	36	544			
									Used departmentally.	130	776			
		Demarcation sleepers.	106	141	2,190	1,540	2,296	1,681	Do. ..	838	589	1,458	1,092	For bungalow work.
		Rafters	..	..	600	630	600	630	Do. ..	600	630	..	..	Do.
		Piasál logs.	..	..	25	247	25	247	Taken to Russellkondah depôt.	4	35	..	..	
									Used departmentally.	21	212			
		Sajo ,,	..	..	36	478	36	478	Taken to Russellkondah depôt.	36	478	..	..	
		Dhau ,,	..	..	2	20	2	20	Do. ..	2	20	..	..	
		Miscellaneous ,,	..	..	85	340	85	340	Do. ..	69	276	16	64	
	Gayagonda Range (late Kukkúlubá)	Sál logs and poles.	370	2,412	804	9,673	1,174	12,085	Taken to Russellkondah depôt.	325	4,879	215	1,904	
									Taken to Gopálpur depôt.	14	222			
									Converted into sleepers.	341	3,347			Converted into 472 sleepers.
									Used departmentally demarcation.	281	1,75			
		Sál sleepers ..	..	..	472	1,038	472	1,038	Taken to depôt.	472	1,038	..	..	
		Demarcation posts.	..	..	3,088	2,171	3,088	2,171	.. ..		..	3,088	2,171	
		Piasál	1	11	..	..	1	11	Less on measurement.	..	4	1	7	
		Sajo	2	19	2	48	4	67	Do. ..	..	7	4	60	
		Ebony	..	..	7	76	7	76	Taken to Russell kondah depôt.	3	52	4	24	
		Miscellaneous ..	4	36	13	299	17	335	.. ..		..	17	355	

Note.—1 Ton = 50 C. ft. Timber or fuel.
1 ,, = 75 ,, Bamboos.
1 ,, = 90 Maunds of 25 lb. each.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam—*cont.*	Bodobo ro-singi (late Suradá range).	Sál logs ..	..	..	1,501	18,000	1,501	18,000	Used departmentally.	3	22	1,472	17,619	Khariguda bungulow work.
									Taken to depôt.	26	359			
		Satinwood ..	..	..	42	475	42	475	Taken to depôt.	35	396	7	79	
		Sajo	22	411	..	..	22	411	..	..	..	22	411	
		Miscellaneous ..	..	..	15	154	15	154	Taken to depôt.	11	118	4	36	
		Sál logs ..	..	..	463	3,975	463	3,975	Taken to Berhampore depôt.	386	3,312	77	663	
	Berhampore.	Sleepers ..	..	..	208	624	208	624	Do. ..	204	612	4	12	
		Piasál logs ..	..	..	7	82	7	82	Do. ..	4	52	3	30	
		Blackwood ..	..	..	1	3	1	3	Do. ..	1	3	..	..	
		Miscellaneous ..	..	..	19	150	19	150	Do. ..	18	144	..	..	
									Sold	1	6	..	..	
		Total, Timber ..	2,738	33,858 or 677¾ Tons.	9,922	42,147 or 842¾ Tons.	12,660	76,035 or 1,520½ Tons.	..	4,608	25,267 or 505¼	8,052	50,768 or 1,015¼ Tons.	
	Gayagonda range.	Fuel	..	..	Tons 211	..	Tons 211	..	Destroyed by fire.	Tons 181	..	Tons 30	..	
	Bodoborosingi range.	Do.	Tons 514	..	..	..	,, 514	..	Sold	,, 247½	..	266½	..	
	Kurcholy .	Do.	..	..	,, 10	..	,, 10	..	Sold	,, 10	..	..	..	
		Total, Fuel ..	Tons 514	..	Tons 221	..	Tons 735	..	..	Tons 438½	..	Tons 296½	..	
	Chokapad ..	Bamboos ..	..	..	110	Tons 1½	110	Tons 1½	Taken to Russellkondah depôt.	110	Tons 1½	..	..	
		Total, Bamboos.	..	..	110	Tons 1½	110	Tons 1½	..	110	Tons 1½	..	..	
	Berhampore..	Tamarind ..	..	..	Mds. 22	Ton ¼	Mds. 22	Ton ¼	Sold	Mds. 22	Ton ¼	..	..	
		Total, Minor produce.	..	..	Mds. 22	Ton ¼	Mds. 22	Ton ¼	Sold	Mds. 22	Ton ¼	..	..	
Godá-vari.	Rékapalle ..	Ironwood ..	..	..	98	1,085	98	1,085	Sold to Public Works Department.	10	125	86	931	
									Taken to Madras.	2	29			

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Godávari.	Rékapalle..	Nallamaddi ..	..	..	40	422	40	422	..	..	..	40	422	
		Chiriman ..	..	..	13	176	13	176	..	..	..	13	176	
		Miscellaneous ..	..	..	11	114	11	114	Taken to Madras.	6	57	5	57	
		Total, Timber ..	..	..	162	1,797	162	1,797	..	18	211	144	1,586	
			..	..	..	or Tons 36	..	or Tons 36	..	..	or Tons 4	..	or Tons 32	
		Fuel ..	Tons 55	..	..	..	Tons 55	..	Washed away by flood.	Tons 48	..	Tons 7	..	
		Total, Fuel ..	Tons 55	..	..	..	Tons 55	..	..	Tons 48	..	Tons 7	..	
	Godávari River.	Teak	..	..	1,798	7,249	1,798	7,249	Sold	1,798	7,249	..	..	
		Miscellaneous ..	..	..	1,751	12,329	1,751	12,329	Do.	1,751	12,329	..	..	
		Boat	..	..	1	* 1,080	1	* 1,080	Do.	1	* 1,080	..	..	
		Total, Timber ..	..	..	3,550	19,578	3,550	19,578	..	3,550	19,578	..	..	Drift wood.
			..	..	..	or Tons 392	..	or Tons 392	..	..	or Tons 392	..	..	
		Fuel	..	..	Tons 150	..	Tons 150	..	Sold	Tons 150	..	..	..	
		Total, Fuel ..	..	..	Tons 150	..	Tons 150	..	..	Tons 150	..	..	..	
		Bamboos ..	..	..	6,330	or Tons 84	6,330	or Tons 84	Sold	6,330	or Tons 84	..	..	
		Total, Bamboos .	..	..	6,330	or Tons 84	6,330	or Tons 84	..	6,330	or Tons 84	..	..	
	Bezváda ..	Tummapoles ..	118	118	1	1	119	119	Sold	14	14	105	105	
	Palnád ..	Margosa ..	..	..	719	200	719	200	Do.	719	200	..	..	
		Casuarina sticks.	..	..	..	20	..	20	Do.	..	20	..	..	
	Bápatla and Krósúr.	Miscellaneous Timber.	..	..	..	240	..	240	Do.	..	240	..	..	
	Bandar ..	Casuarina ..	..	..	30	30	30	30	Do.	30	30	..	..	
		Total, Timber ..	118	118	750	491	868	609	..	763	504	105	105	
			..	or Tons 2	..	or Tons 10	..	or Tons 12	..		or Tons 10	..	or Tons 2	
Kistna.	Bezváda ..	Tumma ..	Tons 18	..	Tons 29	..	Tons 47	..	Sold	Tons 36	..			
	Bápatla ..	Firewood ..	..	..	,, 19	..	,, 19	..	Taken to depôt.	,, 11	..	..	..	
									Sold	,, 19	..			
		Total, Fuel ..	Tons 18	..	Tons 48	..	Tons 66	..	..	Tons 66	..	..	..	
	Palnád ..	Soapnuts ..	..	..	Mds. 4	..	Mds. 4	..	Sold	Mds. 4	..	..	..	
		Total, Minor produce.	..	..	Mds. 4	..	Mds. 4	..	..	Mds. 4	..	..	..	

* Excluded in the total.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nellore.	Sríharikót ..	Stakes and pegs	..	..	24,000	557	24,000	557	Sold to Salt Department.	24,000	557	..	..	
		Palmyra trees ..	..	..	40	600	40	600	Used departmentally.	40	600	..	..	
		Miscellaneous poles.	..	..	959	106	959	106	Do.	959	106	..	..	
	Plantation ..	Casuarina poles.	..	..	200	216	200	216	Sold to Public Works Department.	200	216	..	..	
		Total, Timber ..	..	..	25,199	1,479 or 30 Ts.	25,199	1,479 or 30 Ts.	..	25,199	1,479 or 30 Ts.	..	..	
	Sríharikót ..	Junglewood ..	..	..	2,066,745	Ts. 2,697	2,066,745	Ts. 2,697	Taken to depôt.	1,820,685	Ts. 2,444	246,060	Ts. 253	
		Sulli bundles ..	..	..	25,739	,, 286	25,739	,, 286	Do. ..	7,840	,, 87	17,899	,, 199	
	Plantation S	Casuarina ..	..	Ts. 1,006	..	,, 3,909	..	,, 4,915	Sold	..	,, 207	..	,, 4,708	
	Do. N	Do. ..	..	...	..	,, 427	..	,, 427	Do.	..	,, 31	..	..	
									Taken to depôt.	..	,, 396			
		Do. roots, &c.	..	..	..	,, 40	..	,, 40	Sold	..	,, 40	..	..	
		Total, Fuel ..	..	Ts. 1,006	..	Ts. 7,359	..	Ts. 8,365	..	..	Ts. 3,205	..	Ts. 5,160	
	Sríharikót ..	Nux-Vomica ..	Mds. 306	..	Mds. 165½	..	Mds. 471½	..	Taken to depôt.	Mds. 471½	..	..	..	
		Cheyroot ..	,, 661	..	,, 95	..	,, 756	..	..	..	..	Mds. 756	..	
		Sarsaparilla ..	..	..	,, 224	..	,, 224	..	Taken to depôt.	,, 5	..	,, 219	..	
		Orchella weed ..	..	..	,, 7	..	,, 7	..	..	..	..	,, 7	..	
		Isorara	..	..	,, 27	..	,, 27	..	..	..	..	,, 27	..	
		Visha booddi (sida acuta).	..	..	8	..	,, 8	..	..	..	..	,, 8	..	
		Kukkapala ..	..	..	,, 9	..	,, 9	..	..	..	..	,, 9	..	
		Casuarina seeds.	..	..	,, ½	..	,, ½	..	Sold	,, ½	..	..	..	
		Tangedu bark ..	,, 63	..	..	..	,, 63	..	..	..	..	,, 63	..	
		Rattan	..	..	183 or Mds. 183	Bundles.	183 orMds.183	Bundles.	Taken to depôt.	183 or Mds. 183	Bundles.	..	..	Each bundle weighs about 1 maund estimate.
		Total, Minor produce.	Mds. 1,030 or Ts. 11½	..	Mds. 719 or Ts. 8	..	Mds. 1,749 or Ts. 19½	..	..	Mds. 660 or Ts. 7½	..	Mds. 1,089 or Ts. 12	..	
Cuddapah.	Kódúr ..	Red sander roots, &c.	..	..	Ts. 2,071⅜	99,426	Ts. 2,071⅜	99,426	Taken to depôt.	Ts. 2,071⅜	99,426	..	..	
		Do. poles ..	..	..	No. 401	401	No. 401	401	Sold	No. 237	237	164	164	
		Teak	..	..	,, 3	3	,, 3	3	..	..	..	3	3	
		Miscellaneous ..	..	..	,, 163	403	,, 163	403	Sold	,, 28	28	135	375	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Cuddapah—*cont.*	Rájampet ..	Red sander posts.	..	..	No. 925	925	No. 925	925	Sold	No. 575	575	350	350	
		Miscellaneous ..	..	..	,, 359	359	,, 359	359	Do. ..	,, 79	79	280	280	
	Badvél ..	Red sander posts.	..	..	,, 200	200	,, 200	200	Taken to depôt.	,, 200	200	..	..	
		Miscellaneous ..	..	..	,, 87	87	,, 87	87	Do. ..	,, 87	87	..	..	
	Cuddapah ..	Red sander rafters.	..	..	,, 78	78	,, 78	78	Do. ..	,, 78	78	..	..	
		Miscellaneous ..	..	..	,, 70	70	,, 70	70	Do. ..	,, 70	70	..	..	
	Ráyachóti ..	Red sander poles.	..	..	,, 100	100	,, 100	100	..	..	..	100	100	
	Váyalpád ..	Miscellaneous ..	..	..	,, 2,374	2,374	,, 2,374	2,374	Sold	,, 344	344	2,030	2,030	
		Total, Timber..	..	..	Ts. 2,171⅜	104,426	Ts. 2,171⅜	104,426	..	Ts. 2,105	101,124	No. 3,062 or Ts. 66	3,302	C.-ft. 3302 = 66 tons at 50 c. ft. a ton.
	Kódúr ..	Firewood ..	..	..	Ts. 85	..	Ts. 85	..	..	..	..	Ts. 85	..	
	Rájampet ..	Do. ..	..	..	,, 1½	..	,, 1½	..	Taken to depôt.	Tons 1½	..	..	..	
	Badvél ..	Do. ..	..	..	,, 91¼	..	,, 91¼	..	..	..	..	,, 91¼	..	
		Total, Fuel ..	..	..	Ts. 177¾	..	Ts. 177¾	..	..	Tons 1½	..	Ts. 176¼	..	
	Kódúr ..	Bamboos ..	..	..	19,570	..	19,570	..	Sold	19,270	19,270	300	300	
	Rájampet ..	Do. ..	..	..	120	..	120	..	Do.	120	120	..	..	
		Total, Bamboos.	..	..	No. 19,690 or Ts. 394	..	No. 19,690 or Ts. 394	..	..	No. 19,390 or Ts. 388	19,390	No. 300 or Ts. 6	300	
	All ranges..	Gallnuts C ..	Mds. 5,151	..	Mds 1,702	..	Mds. 6,853	..	Taken to depôt.	Mds. 4,280	..	Mds. 96	..	C = Chebula.
									Dryage ..	,, 2,477				
		Do. B ..	..	..	,, 1,150	..	,, 1,150	..	Taken to depôt.	,, 1,150	..	..	..	B = Belerica.
		Tangedu ..	,, 156	..	,, 98		,, 254	..	Do. ..	98	..	..	..	
									Sold	148				
									Dryage ..	8				
	Rájampet, Sidhout and Madanapalle.	Mangoes ..	..	..	No. 11,068 or Mds. 148	..	No. 11,068 or Ms. 148	..	Sold	No. 9,432 or 126 Mds.	..	..	..	75 fruits per maund.
									Taken to depôt.	No. 1,636 or 22 Mds.				
	Madanapalle.	Pomegranates ..	..	..	No. 96 or 2 Mds.	..	No. 96 or 2 Mds.	..	Sold	No. 96 or 2 Mds.	..	..	..	50 do. do.
		Coffee	..	..	Mds. 1¼	..	Mds. 1¼	..	Do.	Mds. 1¼	..	..	..	
		Total, Minor produce.	Mds. 5,307 or Ts. 59	..	Mds. 3,101½ or Ts. 34⅔	..	Mds. 8,408¼ or Ts. 93⅓	..	..	Mds. 8,312½ or Ts. 92½	..	Mds. 96 or Ts. 1	..	
Kurnool.	Nandyál ..	Firewood ..	..	..	Ts. 191	..	Ts. 191	..	Sold to Bellary-Kistna State Railway.	Ts. 191	..	..	..	
		Total, Fuel ..	..	..	Ts. 191	..	Ts. 191	..	..	Ts. 191	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Kurnool. —*cont.*	Nandikótkur.	Gallnuts C ..	Mds. 280	..	..	..	Mds. 280	..	..	..	..	..	Mds. 280	
	Sirvel ..	Do. B ..	,, 190	..	..	..	190	..	..	..	..	..	,, 190	
	Sirvel and Velgode.	Honey	..	..	Mds. 10	..	10	..	Sold	Mds. 10	..	..	..	
		Wax	..	..	,, 2¾	..	2¾	..	Do. ..	,, 2¾	..	..	..	
		Total, Minor produce.	Mds. 470 or Tons 5¼	..	Mds. 12¾	..	Mds. 482¾ or Tons 5¼	..	..	Mds. 12¾	..	..	Mds. 470 or Tons 5¼	
Bellary.	Sandúr ..	Teak poles ..	4	12	691	2,073	695	2,085	Sold	695	2,085	..	..	
		Do. rafters ..	..	..	1,026	2,052	1,026	2,052	Do.	1,026	2,052	..	..	
		Total, Timber..	4	12	1,717	4,125 or Tons 82½	1,721	4,137 or Tons 82½	..	1,721	4,137 or Tons 82½	..	..	
	Western range.	Firewood ..	..	..	Tons 1,047	..	Ts. 1,047	..	Sold	Tons 365	..	Tons 671	..	
		Sandúr .. Do. (Brushwood).	..	..	,, 37	..	,, 37	..	Taken to Hospet.	,, 11	..			
									Sold	,, 37	..	..	..	
		Charcoal ..	Mds. 9	..	..	..	Mds. 9	..	Do.	Mds. 9	..	..	..	
		Brushwood ..	..	..	Tons 2	..	Tons 2	..	Do.	Tons 2	..	..	..	
		Total, Fuel and Charcoal.	Mds. 9	..	Tons 1,086	..	Ts. 1,086	..	..	Tons 415	..	Tons 671	..	
	Sandúr ..	Bamboos (Large)	..	..	212	..	212	..	Sold	212	..	..	..	
		Do. (Small)	..	..	76,166	..	76,166	..	Do.	76,166	..	..	..	
		Total, Bamboos.	..	..	76,378 or 1,018	Tons.	76,378 or 1,018	Tons.	..	76,378 or 1,018	Tons.	..	..	
	Sandúr ..	Gallnuts C ..	Mds. 23	..	..	..	Mds. 23	..	Sold	Mds. 23	..	..	..	
		Tamarind ..	,, 43	..	..	..	,, 43	..	..	..	..	Mds. 43	..	
		Honey ..	Bottles 3	..	Bottles 15	..	Bottles 18	..	Sold	Mds. 3	..	..	..	18 bottles = 1 maund estimate.
					Mds. 2	..	Mds. 2	..						
		Wax	lb. 2	..	Seers 34	..	Seers 34 and lb. 2	..	Do.	34 Seers and 2 lb.	..	..	..	34 seers and 2 lb. = 1 maund.
		Sheakoy ..	..	..	Mds. 10	..	Mds. 10	..	Do.	Mds. 10	..	..	..	
		Gum	Seers 16	..	Seers 40	..	Seers 56 or Mds. 1½	..	Do.	Seers 56 or Mds. 1½	..	..	..	
		Kamila dye ..	lb. 25	..	..	..	lb. 25	..	Taken to depôt.	lb. 20	..	lb. 5	..	
		Total, Minor produce.	Mds. 67¾ or ¾ Ton	..	Mds. 15 or ¼ Ton	..	Mds. 82½ or 1 Ton	..	..	Mds. 39½ or ½ Ton	..	Mds. 43 and 5 lb. or ½ Ton	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Anantapur.	Penukonda ..	Teak rafters ..	150	150	..	..	150	150	..	..	..	150	150	
		Palmyra beam..	5	10	..	..	5	10	Used departmentally.	2	4	3	6	
	Hindupur ..	Miscellaneous ..	Tons 5	250	..	..	Tons 5	250	..	..	..	Tons 5	250	
	Gooty ..	Babul beam ..	..	..	2	24	2	24	Taken to depôt	1	12	..	..	
									Sold	1	12			
		Palmyra ..	..	..	9	18	9	18	Used departmentally.	8	16	..	..	
									Taken to depôt	1	2			
	Anantapur ..	Do. reapers ..	..	..	200	300	200	300	Sold	200	300	..	..	
		Do. trees ..	..	..	15	120	15	120	Do.	15	120	..	..	
		Total, Timber..	160	410 or Tons 8	226	462 or Tons 9	386	872 or Tons 17	..	228	466 or Tons 9	158	406 or Tons 8	
	Gooty ..	Firewood ..	..	..	Ton 1	..	Ton 1	..	Sold	Ton 1	..	..	..	
		Total, Fuel ..	..	..	Ton 1	..	Ton 1	..	..	Ton 1	..	..	..	
	All Ranges.	Gum	Mds. 15	..	Mds. 36½	..	Mds. 51½	..	Taken to depôt	Mds. 21½	..	Mds. 8¼	..	
									Sold	,, 21¾				
		Honey ..	,, 2	..	,, 83¼	..	,, 85¼	..	Taken to depôt	,, 82¼	..	,, ¼	..	
									Sold	,, 2				
									Wastage ..	,, ¾				
		Wax	..	..	,, 4¾	..	,, 4¾	..	Taken to depôt	,, 3	..	..	..	
									Sold	,, 1¾				
	Penukonda ..	Gallnuts C ..	,, 20	..	,, 84½	..	,, 104½	..	Do.	,, 28¾	..	..	..	
									Taken to depôt	,, 75¾				
		Tamarind ..	..	..	,, 4½	..	,, 4½	..	Do. do. ..	,, 4½	..	..	..	
	Hindupur ..	Kanuga seeds ..	,, 3¼	..	.. ..	..	,, 3¼	..	Sold	,, 3¼	..	..	..	
	Muchukota ..	Palmyra leaves.	..	..	No. 150 or Mds. 5	..	No. 150 or Mds. 5	..	Do.	No. 150 or Mds. 5	..	..	..	150 Leaves = to 5 Maunds estimate
		Total, Minor produce.	Mds. 40¼ or ½ Ton	..	Mds. 218½ or Tons 2½	..	Mds. 258¾ or Tons 3	..	..	Mds. 250½ or Tons 3	..	Mds. 8¼	..	
Nilgiris.	Benné	Teak ..	40	1,552	14	448	54	2,000	Sold	28	1,000	26	1,000	
		Blackwood ..	3	230	..	..	3	230	..	..	..	3	230	
		Vengai ..	..	..	11	448	11	448	..	..	..	11	448	
		Matti ..	..	..	10	506	10	506	..	..	..	10	506	
	Tippacadu	Teak ..	45	1,033	32	734	77	1,767	Sold	2	46	75	1,721	
		Do. poles ..	2,059	12,354	324	1,944	2,383	14,298	Do.	66	396	2,317	13,902	
		Do. pieces ..	..	1,205	..	..	..	1,205	..	..	..	..	1,205	
		Blackwood logs and poles ..	182	1,507	25	212	207	1,719	..	..	..	207	1,719	
		Vengai ..	167	1,002	9	54	176	1,056	..	..	..	176	1,056	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Tippacadu—*cont.*	Matti	3	84	3	110	6	194	..	..	..	6	194	
		Do. poles ..	..	..	95	570	95	570	..	..	..	95	570	
		Miscellaneous wood.	..	..	3	86	3	86	..	..	..	3	86	
		Miscellaneous poles.	..	..	202	1,212	202	1,212	..	..	..	202	1,212	
	Bandy Shola.	Acacia planks ..	89	65	56	30	145	95	Taken to depôt.	145	95	..	..	
		Do. &c., rafters.	65	65	203	203	268	268	Do.	268	268	..	..	
	Coonoor peak.	Bluegum drag poles.	..	..	3,874	3,874	3,874	3,874	Do. Converted into fuel. Used departmentally.	3,472 400 2	3,874	..	..	
		Bluegum drag posts.	..	..	15	15	15	15	Used departmentally.	15	15	..	..	
	Bleak house..	Bluegum drag poles.	..	..	380	380	380	380	Taken to depôt.	120	120	260	260	
	Lambs rock.	Miscellaneous planks.	..	..	44	27	44	27	Do.	44	27	..	..	
		Miscellaneous rafters.	..	..	59	59	59	59	Do.	59	59	..	..	
	Longwood ..	Drag poles ..	..	..	95	95	95	95	Sold	87	87	8	8	
	Kullar reserve.	Do. ..	287	287	..	..	287	287	..	..	..	287	287	
		Total, Timber..	2,940	19,384 or 388 Ts.	5,454	11,007 or 220 Ts.	8,394	30,391 or 608 Ts.	..	4,708	5,987 or 120 Ts.	3,686	24,404 or 488 Ts.	
	Ootacamund Range. Governor's shola.	Eucalyptus ..	Tons 850	..	Tons 892	..	Ts. 1,742	..	Sold .. .. Taken to depôt. Dryage ..	Tons 582 ,, 138 ,, 72	..	Tons 950	..	
	Cairn hill.	Do. ..	,, 483	..	,, 231	..	,, 714	..	Sold .. .. Taken to depôt. Dryage ..	,, 570 ,, 122 ,, 22	..	..	..	
		Shola wood ..	,, 124	..	..	..	,, 124	..	Sold .. .. Taken to depôt. Dryage ..	,, 96 ,, 19 ,, 9	..	..	..	
	Aramby.	Eucalyptus ..	,, 374	..	,, 1,614	..	,, 1,988	..	Sold .. .. Taken to depôt. Dryage ..	,, 717. ,, 31 ,, 70	..	,, 1,170	..	
		Shola wood ..	,, 64	..	..	..	,, 64	..	Sold	,, 64	..	..	..	
	Ulnad reserve.	Eucalyptus ..	,, 202	..	,, 176	..	,, 378	..	Sold .. .. Taken to depôt. Dryage ..	,, 187 ,, 138 ,, 53	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Coonoor Range. Coonoor peak.	Eucalyptus ..	Tons 1,360	..	Tons 3,004	..	Ts. 4,364	..	Sold	Tons. 307	..	Tons 2,612	..	
									Taken to Coonoor depôt.	,, 183				
									Taken to Wellington depôt.	,, 998				
									Taken to Charcoal kiln.	,, 4				
									Dryage ..	,, 260				
	Ghât reserve.	Shola wood ..	,, 6	..	,, 97	..	,, 103	..	Taken to Wellington depôt.	,, 15	..	Ton 1	..	
									Taken to Coonoor depôt.	,, 37				
									Sold	,, 36				
									Dryage ..	,, 14				
	Bandy shola.	Eucalyptus ..	,, 20	..	,, 224	..	,, 244	..	Taken to Coonoor depôt.	Ton 1	..	Tons 14	..	
									Taken to Wellington depôt.	Tons 86				
									Sold	,, 16				
									Charcoal kiln ..	,, 127				
		Charcoal ..	,, 5	..	,, 18	..	,, 23	..	Taken to Wellington depôt.	,, 6	..	Ton 1	..	
									Taken to Coonoor depôt.	Ton 1				
									Taken to Ootacamund depôt.	Tons 11				
									Sold	,, 4				
	Longwood.	Do. ..	..	..	Ton ½	..	Ton ½	..	Sold	lbs. 175	..	lbs. 940	..	
	Bleak house. Lambs Rock. Sims Park. Hulical	Bluegum ..	..	..	Tons 91	..	Tons 91	..	Charcoal kiln ..	Tons 11	..	Tons 105	..	
		Acacia	..	..	,, 41	..	,, 41	..	Sold	,, 16				
	Long wood.	Sholawood ..	..	..	,, 267	..	,, 267	..	Taken to Wellington depôt.	,, 8	..	,, 50½	..	
									Taken to Coonoor depôt.	,, 18				
									Sold	,, 178				
									Dryage ..	,, 12½				
	Kullâr ..	Do. ..	,, 188	..	,, 456	..	,, 644	..	Sold	,, 89	..	,, 555	..	
		Total, Fuel ..	3,676	..	7,111½	..	10,787½	..	..	5,328½	..	5,459	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Sigúr ..	Sandalwood roots, &c.	Mds. 125	..	Mds. 1,565	..	Mds. 1,690	..	Sold	Mds. 1,457	..	Mds. 233	..	
		Chips ..	..	..	,, 100	..	,, 100	..	Sold	,, 100	..	..	..	
		Total, Sandalwood.	Mds. 125 or 1¼ Tons	..	Mds. 1,665 or 18½ Tons	..	Mds. 1,790 or 19¾ Ts.	..	..	Mds. 1,557 or 17¼ Tons	..	Mds. 233 or 2½ Tons	..	
	Sigúr ..	Gallnuts, C ..	..	..	Mds. 235	..	Mds. 235	..	..	..	..	Mds. 235	..	
		Shea-koy ..	..	..	,, 90	..	,, 90	..	..	..	..	,, 90	..	
		Vambadum bark.	..	..	,, 80	..	,, 80	..	..	..	..	,, 80	..	
		Coffee	..	..	,, 6½	..	,, 6½	..	Sold	Mds. 2½	..	,, 4	..	
		Deer horns ..	..	..	No. 110	or 3 Mds.	No. 110	or 3 Mds.	..	..	..	No. 110	or 3 Mds.	Estimate.
	All Ranges.	Tamarind ..	..	..	Mds. 2½	..	Mds. 2½	..	..	..	..	Mds. 2½	..	
		Honey	Mds. 64½	..	,, 8	..	,, 72½	..	Sold .. .. / Wastage ..	Mds. 53 / ,, 4½	..	,, 15	..	
		Wax	..	..	,, 4	..	,, 4	..	..	..	..	,, 4	..	
		Total ..	Mds. 64½ or ¾ Ts.	..	Mds. 429 or 4¾ Ts.	..	Mds. 493½ or 5½ Ts.	..	..	Mds. 60 or ½ Ton	..	Mds. 433½ or 5 Ts.	..	

ABSTRACT.

Sál logs and poles.	665	Tons.	676	Tons.	1,341	Tons.	..	412	Tons.	929	Tons.
Teak	325	Do.	290¼	Do.	615¼	Do.	..	256¼	Do.	359	Do.
Red saunders ..	..	..	2,105⅝	Do.	2,105⅝	Do.	..	2,096⅝	Do.	9	Do.
Miscellaneous ..	79	Do.	639	Do.	718	Do.	..	431	Do.	287	Do.
Sleepers, rafters and planks.	5	Do.	83	Do.	88	Do.	..	66	Do.	22	Do.
Total timber ..	1,074	Do.	3,793⅝	Do.	4,867⅝	Do.	..	3,261⅝	Do.	1,606	Do.
Fuel and charcoal.	5,269	Tons.	16,345¼	Tons.	21,614¼	Tons.	..	9,844½	Do.	11,769¾	Tons.
Bamboos ..	..	Do.	1,497½	Do.	1,497½	Do.	..	1,491½	Do.	6	Do.
Sandalwood ..	1¼	Do.	18½	Do.	19¾	Do.	..	17¼	Do.	2½	Do.
Minor produce.	77¾	Do.	50¼	Do.	128	Do.	..	104¼	Do.	23¾	Do.

Annual Form No. 70.

Forest Department, Madras, Northern Circle.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88.

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam	..	Russell-konda.	Sál logs, poles..	260	2,752	Mojjagodo ..	540	3,119	1,140	10,969	Converted into sleepers.	*245	3,821	..	..	* 1,024 Sleepers.
						Kukkúlubá ..	323	4,879			Converted into rafters.	69	435	..	..	
						Found in excess.	17	219			Taken to Gopálpur.	810	6,602	..	..	
											Taken to Kariguda.	3	22	..	..	
											Sold	13	89	..	..	
			Sál sleepers ..	490	980	Kukkúlubá ..	472	1,038	1,986	4,101	Do. ..	1,130	2,486	..	..	
						Conversion ..	1,024	2,083			Taken to Gopálpur.	853	1,605	..	..	
											Taken to Kariguda.	3	10	..	..	
			Demarcation posts.	2,038	1,437	Harden and Co.	3,240	2,274	5,278	3,711	Used departmentally.	5,278	3,711	..	..	
			Rafters ..	..	..	Conversion ..	158	176	158	176	Taken to Gopálpur.	158	176	..	..	
											Do. do. ..	105	1,206	..	..	
			Sajo logs ..	86	1,010	Mojjagodo ..	36	478	122	1,488	Sold	17	279	..	..	
											Loss on remeasurement.	..	3	..	..	
			,, planks ..	2	8	..	..	..	2	8	Sold	2	8	..	..	
											Sold	3	40	..	..	
			Dhau logs ..	65	925	Mojjagodo ..	2	20	67	945	Taken to Gopálpur.	64	905	..	..	
			,, planks.	2	8	..	..	..	2	8	Sold	2	8	..	..	
											Do. ..	2	15	..	..	
			Ebony logs ..	2	12	Kukkúlubá ..	3	52	5	64	Taken to Gopálpur.	3	49	..	..	
			Blackwood logs.	2	13	..	..	..	2	13	Sold	2	13	..	..	
			Satinwood ..	2	19	..	..	..	2	19	Taken to Gopálpur.	2	19	..	..	
			,, planks ..	2	8	..	..	..	2	8	Sold	2	8	..	..	
			Piasál logs ..	5	44	Mojjagodo ..	4	35	9	79	Converted into planks.	3	†28	..	..	1
											Taken to Gopálpur.	6	51	..	..	
			,, rafters ..	4	4	..	..	..	4	4	Sold	4	4	..	..	
			,, planks ..	..	..	Conversion ..	36	24	36	24	Do. ..	7	4	..	..	
											Used departmentally.	29	20	..	..	

Note.— 1 Ton = 50 c. ft. Timber or Fuel.
1 ,, = 75 Bamboos.
1 ,, = 90 Maunds of 25 lb. each.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Berhampore-*cont.*	Sál rafters ..	..	..	Conversion ..	184	389	184	389	Sold	167	370	..	..	
											Used departmentally.	12	13			
											Taken to Gopálpur.	5	6			
			Piasál	..	..	..	4	52	4	52	Do. ..	4	52	..	..	
			Blackwood ..	..	..	..	1	3	1	3	Do. ..	1	3	..	..	
			Satinwood ..	..	..	Suradá ..	5	56	5	56	Do. ..	5	56	..	..	
			Miscellaneous ..	..	..	Forests ..	18	144	18	144	Do. ..	15	123	..	..	
											Sold	3	21			
			Slabs, &c. ..	..	..	Conversion ..	382	..	382	..	Do.	270	..	..	..	
											Taken to Gopálpur	112				
			Total ..	2	24	..	1,488	5,176	1,490	5,200	..	1,490	5,200	..	..	
			Sál logs and poles.	..	..	Berhampore..	191	1,521	1,066	9,109	Converted into sleepers.	302	5,813	648	4,625	* 312 lbs.
						Russellkonda .	810	6,602			Converted into charcoal.	* 13	50			
						Suradá ..	15	220			Used departmentally.	15	63			
						Mojjagodo ..	36	544			Sold	88	558			
						Kukkúlubá ..	14	222			..	..	..	..	..	
			Do. sleepers.	..	..	Berhampore..	149	400	1,081	2,163	Sold	929	1,887	150	269	
						Russellkonda.	853	1,605			Used departmentally.	2	7			
						Conversion ..	79	158								
			Do. rafters.	..	..	Berhampore..	5	6	181	203	Do. ..	7	7	174	196	
						Russellkonda.	158	176								
						Conversion ..	18	21								
			Do. scantlings.	..	..	Do. ..	161	2,220	161	2,220	Sold	111	2,069	50	151	
		Gopálpur.	Satin logs ..	..	..	Berhampore..	5	56	35	382	Found less on remeasurement.	..	6	35	376	
						Suradá ..	27	307								
						Russellkonda.	2	19								
						Found in excess	1	..								
			Ebony	..	..	Russellkonda.	3	49	3	49	Do. ..	..	3	3	46	
			Blackwood ..	..	..	Berhampore..	1	3	1	3	..	..	..	1	3	
			Sajo	..	..	Suradá ..	11	170	139	1,727	Converted into sleepers.	†3	44	136	1,683	† 5 sleepers.
						Russellkonda.	105	1,206								
						Found in excess	23	351								
			Do. Sleepers ..	..	..	Conversion ..	5	17	5	17	Samples sent to Bombay.	3	11	2	6	
			Piasál	..	..	Berhampore..	4	52	10	103	Less on remeasurement.	..	6	10	97	
						Russellkonda.	6	51								
			Dhau	..	..	Do. ..	64	905	64	905	Do. ..	17	250	47	665	
			Miscellaneous ..	..	..	Do. ..	7	80	22	203	Do. ..	2	37	20	166	
						Berhampore..	15	123								
			Sides and slabs, &c.	..	..	Conversion ..	2,937	..	2.937	..	Sold	513	..	1,982	..	
											Used departmentally.	442	..	..	..	
			Total ..	..	..	..	5,705	17,084	5,705	17,084	..	2,447	8,811	3,258	8,273	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Russell-konda—*cont.*	Miscellaneous logs.	42	306	Mojjagodo ..	69	276	111	582	Sold	37	236	..	..	
											Taken to Gopálpur.	7	80			
											Used departmentally.	67	266			
			Miscellaneous planks.	31	20	..	..	..	31	20	Sold	31	20	..	..	
			Slabs, sides, &c.	1,687	..	Conversion ..	1,599	..	3,286	..	Do.	3,058	..	..	..	
											Converted into sleepers.	14	..			
											Stolen ..	82	..			
											Used departmentally.	132	..			
			Total ..	4,720	7,546	..	7,523	14,673	12,243	22,219	..	12,243	22,219	..	..	
		Suradá ..	Sál logs ..	5	79	..	26	359	31	438	Taken to Gopálpur.	15	220	16	218	
			,, sleepers ..	2	7	..	..	..	2	7	Do. Kariguda..	2	7	..	..	
			Blackwood logs.	2	15	..	..	..	2	15	Do. ..	2	15	..	..	
			Ebony	3	20	..	..	..	3	20	Do. ..	3	20	..	..	
			Sajo	47	858	..	..	..	47	858	Taken to Gopálpur.	11	170	36	688	
											Do. ..	27	307	3	33	
			Satinwood ..	..	..	..	35	396	35	396	Taken to Berhampore.	5	56			
			Miscellaneous ..	..	..	..	11	118	11	118	Converted into planks.	*4	47	7	71	*74 planks.
			Planks ..	..	..	Conversion ..	74	37	74	37	Taken to Kariguda.	23	11	51	26	
			Total ..	59	979	..	146	910	205	1,889	..	92	853	113	1,036	
		Berhampore.	Sál logs and poles.	2	24	Forests ..	386	3,312	388	3,336	Converted into sleepers.	†182	1,687	..	..	† 304 sleepers.
											Used departmentally.	8	73			
											Taken to Gopálpur.	191	1,521			
											Sold	7	65			
			Sál sleepers ..	..	..	Conversion ..	304	608	508	1,220	Do. ..	315	667	..	..	
						Forests ..	204	612			Converted into rafters.	42	146			
											Used departmentally.	2	7			
											Taken to Gopálpur.	149	400			

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Chondorgiri and Bedigula.	Holondo planks.	693	..	..	..	..	693	..	Used departmentally.	376	..	317	..	
			Total ..	693	..	..	..	..	693	..	..	376	..	317	..	
		Kariguda	Sál logs, &c. ..	7	51	Russellkondah	3	22	10	73	Used departmentally.	10	73	..	..	
			,, poles ..	19	47	..	..	..	19	47	Do.	19	47	..	..	
			,, sleepers ..	..	..	Russellkondah and Surada	5	29	5	29	Do.	5	29	..	..	
			Sajo rafters ..	32	36	..	..	..	32	36	Do.	32	36	..	..	
			Dhau ,, ..	17	79	..	..	..	17	79	Do.	17	79	..	..	
			Holondo planks.	100	50	Suradá ..	23	11	123	61	..	..	..	123	61	
			Blackwood logs.	..	..	Do. ..	2	15	2	15	Used departmentally.	2	15	..	..	
			Ebony logs ..	..	..	Do. ..	3	20	3	20	Do.	3	20	..	..	
			Total ..	175	263	..	36	97	211	360	..	88	299	123	61	
		Madras ..	Dhau logs ..	8	176	..	..	..	8	176	..	..	..	8	176	
			Sajo	8	151	..	..	..	8	151	..	..	..	8	151	
			Satinwood ..	6	86	..	..	..	6	86	..	..	..	6	86	
			Total ..	22	413	..	..	..	22	413	..	..	..	22	413	
			Total, Timber, Ganjam.	5,671	9,225 or Tons 184	..	14,898	37,940 or Tons 759	20 569	47,165 or Tons 943	..	16,736	37,382 or Tons 747	3,833	9,783 or Tons 196	
		Russellkondah.	Fuel	Tons 14	..	..	..	..	Tons 14	..	Stolen	Tons 7	..	Tons 7	..	
			Charcoal ..	..	..	..	lb. 312	..	lb. 312	..	Used departmentally.	lb. 204	..	lb. 108	..	
			Total, Fuel and Charcoal.	Tons 14	..	..	lb. 312	..	Tons 14 or lb. 312	..	..	Tons 7 lb. 204	..	Tons 7 lb. 108	..	
		Do. ..	Bamboos ..	..	..	..	110	Tons 1½	110	Tons 1½	Sold	110	Tons 1½	..	..	
			Total, Bamboos.	..	..	..	110	Tons 1½	110	Tons 1½	..	110	Tons 1½	..	..	
		Suradá ..	Gallnuts B. ..	Mds. 4	..	..	..	..	Mds. 4	..	Sown	Mds. 4	..	..	..	
			,, C. ..	,, 57	..	..	..	..	,, 57	..	..	..	..	Mds. 57	..	
			Nux-vomica ..	,, 34	..	..	..	..	,, 34	..	Sown	Mds. 34	..	..	..	
			Soymida gum ..	,, 1	..	..	..	..	,, 1	..	..	..	..	Mds. 1	..	
			Gillo nuts ..	,, 749	..	..	..	..	,, 749	..	..	..	..	,, 749	..	
		Gopálpur ..	,, ..	,, 58	..	..	..	..	,, 58	..	Used as samples ..	58	..	..	..	
			Total, Minor produce.	Mds. 903	Tons 10	..	..	..	Mds. 903	Tons 10	..	Mds. 96	Ton 1	Mds. 807	Tons 9	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Godávari	..	Madras ..	Ironwood ..	..	..	..	2	29	2	29	Sold to Madras Railway Company.	1	14	1	15	
			Miscellaneous ..	..	..	..	6	57	6	57	Do.	3	28	3	29	
			Total, Timber ..	..	..	..	8	Tons 2 or 86	8	Tons 2 or 86	..	4	Tons 1 or 42	4	Tons 1 or 44	
Kistna ..	..	Bezváda ..	Firewood ..	..	..	..	Tons 11	220	Tons 11	220	Sold	Tons 11	220	..	..	
			Total, Fuel ..	..	..	..	Tons 11	220	Tons 11	220	..	Tons 11	220	..	..	
Nellore.	..	Madras ..	Narudu poles ..	120	120	Excess found.	2	2	122	122	Sold	122	122	..	..	
			Casuarina poles.	1	2	..	..	..	1	2	..	..	..	1	2	
			Total, Timber ..	121	Ts. 2 or 122	..	2	2	123	Ts. 2 or 124	..	122	Ts. 2 or 122	1	2	
		Do. ..	Junglewood ..	10,23,850	Ts. 1,430	Sríharikóta ..	1,820,685	Ts. 2,444	2,844,535	Ts. 3,874	Sold	2,512,698	Ts. 3,414	331,499	Tons 460	
											Short delivery ..	326				
			Jungle bundles	8,907	380	Do. ..	7,840	87	16,747	467	Sold	16,255	457	489	10	
											Short delivery ..	3				
			Casuarina ..	..	..	Plantations ..	Ts. 396	..	Ts. 396	..	Sold	Tons 391	..	..	..	
											Short delivery ..	,, 4				
											Dryage	,, 1				
			Total, Fuel ..	..	Ts. 1,810	..	Ts. 2,927	..	Ts. 4,737	..	..	Ts. 4,267	..	Tons 470	..	
		Do. ..	Suratichekka ..	Mds. 82	..	..	..	..	Mds. 82	..	Sold	Mds. 79½	..	..	..	
											Wastage ..	,, 2½				
			Nux-vomica ..	..	..	..	Mds. 471½	..	,, 471½	..	Sold	,, 471½	..	..	..	
			Sarsaparilla ..	..	..	..	,, 5	..	,, 5	..	..	..	..	Mds. 5	..	
			Rattans ..	Bds. 21	..	..	Bds. *183	..	204=Mds. 193½		Sold	Bds. 169	..	35=Mds. 24½		*1 bundle= 1 maund estimate.
			Total, Minor-produce.	Mds. 92½=Ton 1		..	Mds. 659½=Tons 7¼		Mds. 752	=Tons 8¼	..	Mds. 722½=Tons 8		Mds. 29½=Ton ¼		
Cudda-pah.	..	Kódúr ..	Red sander roots, &c.	..	..	Forests ..	Ts. 1,080¾	51,876	1,080¾	51,876	Sold	Tons 900	43,200	Tons 180¾	8,676	
		Peddapád ..	Do. do. ..	Ton ½	12	,, ..	,, 234⅜	11,262	234⅞	11,274	Sold	,, 104	4,992	,, 130⅝	6,270	
											Written off ..	,, ¼	12			
		Orampád ..	Do. do. ..	..	..	,, ..	,, 756	36,288	756	36,288	Sold	,, 680	32,640	,, 76	3,648	
		Badvél ..	Do. posts ..	..	..	,, ..	,, 200	200	200	200	Sold	No. 75	75	..	..	For range house.
											Used departmentally.	,, 125	125			

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Cuddapah—*cont.*	..	..	Miscellaneous posts.	..	..	Forests ..	87	87	87	87	Used departmentally.	No. 87	87	..	..	
		Cuddapah..	Redwood rafters.	..	..	,, ..	78	78	80	80	Sold	,, 80	80	..	..	
		..	Miscellaneous ..	..	..	Found in stock.	2	2								
						..	70	70	70	70	Do.	,, 70	70	..	..	
			Total, Timber ..	Ton ¼	12	..	Ts. 2,080⅛	99,863	Ts. 2,080⅜	99,875	..	Ts. 1,693	81,281	Tons 387⅜	18,594	
		Rájampet..	Firewood ..	..	..	Forests ..	Tons 1½	84	Tons 1½	84	Sold	Tons 1½	84	..	..	
			Total, Fuel ..	..	..	..	Tons 1½	84	Tons 1½	84	..	Tons 1½	84	..	..	
		Cuddapah.	Gallnuts C. ..	Mds.2,252	..	Forests ..	Mds. 502	..	Mds.2,754	..	Sold	Mds.1,348	..	Mds. 355	..	B=Beleric. C=Chebulic.
											Dryage	,, 1,051				
			Do. B. ..	..	..	Do. ..	,, 999	..	,, 999	..	..	..	..	,, 999	..	
		Wontimitta.	Do. C. ..	..	..	Do. ..	,, 1,010	..	,, 1,010	..	Dryage	,, 128	..	,, 882	..	
			Do. B. ..	..	..	Do. ..	,, 151	..	,, 151	..	..	..	..	,, 151	..	
		Keerappalle.	Do. C. ..	..	..	..	,, 2,035	..	,, 2,035	..	..	..	..	,, 2,035	..	
		Polisettivandlapalle.	Do. C. ..	..	..	..	,, 733	..	,, 733	..	..	..	..	,, 733	..	
		Váyalpád..	Tangedu ..	Mds. 112	..	..	,, 98	..	,, 210	..	Sold	,, 210	..	..	..	
		Madanapalle	Mangoes ..	..	..	..	1,636=Mds. 22		1,636=Mds. 22		Do.	1,636=Mds. 22		..	..	75 fruits per maund.
			Total, Minor produce.	Mds.2,364	=Ts. 26¼	..	Mds.5,550	=Ts. 61¾	Mds. 7,914	=Ts. 88	..	Mds.2,759	=Ts. 30¾	Mds.5,155	=Ts. 57¼	
Kurnool.	..	Nandikótkur.	Gallnuts B. ..	Mds. 500	..	..	Mds. 280	..	Mds. 780	..	..	..	..	Mds. 780	..	
		Sirvél ..	Do. B. ..	,, 300	..	..	,, 190	..	,, 490	..	..	..	..	,, 490	..	
		Velgode ..	Do. B. ..	,, 230	..	..	..	..	,, 230	..	..	..	..	,, 230	..	
		Nandyál ..	Do. B. ..	,, 500	..	..	..	..	,, 500	..	..	..	..	,, 500	..	
			Total, Minor produce.	Mds.1,530	=Tns. 17	..	Mds. 470	=Tns. 5¼	Mds.2,000	=Tns. 22¼	..	..	..	Mds.2,000	=Tns. 22¼	
Bellary.	..	Hospet ..	Firewood ..	..	..	Sandár ..	Tons 11	..	Tons 11	..	..	..	..	Tons 11	..	
			Total, Fuel ..	..	..	..	Tons 11	..	Tons 11	..	..	..	..	Tons 11	..	
		Bellary ..	Kapila Dye ..	..	..	..	lb. 20	..	lb. 20	..	..	..	..	lb. 20	..	
			Total Minor Produce.	..	..	..	lb. 20	..	lb. 20	..	..	..	..	lb. 20	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Anantapur.	..	Gooty ..	Babul beam ..	..	..	..	1	12	1	12	Sold	1	12	..	..	
			Palmyra ..	..	..	..	1	2	1	2	..	..	..	1	2	
			Total, Timber ..	..	..	..	2	Tns. ¼=14	2	Tns. ¼=14	..	1	Tns. ¼=12	1	2	
		Bukkapatnam.	Honey	Mds. 42¾	..	..	Mds. 82¼	..	Mds. 125	..	Sold	Mds. 118	..	Mds. 1¼	..	
											Wastage ..	,, 5¾				
			Wax	,, ½	..	..	,, 3	..	,, 3½	..	Sold	,, 3½	..	..	..	
			Gallnuts B. ..	,, 233	..	..	..	..	,, 233	..	Do.	,, 1	..	,, 232	..	
			Do. C. ..	..	..	..	,, 75¾	..	,, 75¾	..	Do.	,, 75¾	..	..	..	
			Teak-seeds ..	,, 2½	..	..	..	..	,, 2½	..	Sown in forests..	,, 2½	..	..	..	
			Tamarind ..	..	..	..	,, 4½	..	,, 4½	..	..	..	..	,, 4½	..	
			Gum	..	..	..	Mds. 21	..	Mds. 21	..	Sold	Mds. 20¾	..	..	..	
		Gooty ..	Do.	Mds. ¾	..	..	,, ½	..	,, 1¼	..	Dryage	,, ¼	..	..	..	
			Babul pods ..	,, 1,658	..	..	..	..	,, 1,658	..	..	..	..	Mds. 1¼	..	
			,, bark ..	1	..	..	..	..	,, 1	..	..	..	..	,, 1,658	..	
			Total, Minor produce.	Mds. 1,938½	=21½ Tons.	..	Mds. 187	Tons 2	Mds. 2,125½	=23⅓ Tons.	..	Mds. 227½	=2¼ Tons.	Mds. 1,898	=21 Tons.	
Nilgiris.	..	Coonoor..	Acacia planks..	251	167	Forest ..	189	122	440	289	Sold	62	41	..	..	*For Bandy Shola char. coal shed.
											Used departmentally.	378*	248			
			,, rafters..	196	196	..	327	327	523	523	Sold	183	183	211	211	For Bandy Shola rest house.
											Used departmentally.	129*	129			
			Drag poles (blue gum, &c.)	260	260	..	3,592	3,592	3,852	3,852	Sold	2,910	3,365	487	487	Sim's Park seed house.
											Do. as fuel ..	455				Coonoor depôt.
																Wellington depôt.
			Total, Timber ..	707	623=12½ Tons.	..	4,108	4,041=81 Tons.	4,815	4,664=93½ Tons.	..	4,117	3,966=79½ Tons.	698	698=14 Tons.	
		Ootacamund.	Firewood (blue gum, &c.).	Tons 387	..	Aramby, Baikei, Governor's Shola, &c.	Tons 448	..	Tons 835	..	Sold	Tons 658	..	Tons 48	..	
											Dryage	,, 129	..			
			Charcoal ..	,, 1	..	Coonoor ..	,, 11	..	,, 12	..	Sold	,, 11½	..	,, ½	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet	Number or Quantity.	Cubic feet.	
Nilgiris —*cont.*	..	Coonoor ..	Firewood ..	Tons 103	..	Forest ..	Tons 239	..	Tons 342	..	Sold	Tons 143	..	Tons 93	..	
											Taken to Wellington depôt.	,, 9	..			
											Dryage	,, 97	..			
		Wellington.	Do. ..	,, 8	..	Do. ..	,, 1,116	..	,, 1,124	..	Sold	,, 935½	..	,, 89	..	
											Dryage	,, 94½	..			
											Used departmentally.	,, 5	..			
			Charcoal ..	..	..	Bandy shola..	,, 6	..	,, 6	..	Sold	,, 5½	..	,, ½	..	
			Total, Fuel ..	Tons 499	..	..	Tons 1,820	..	Tons 2,319	..	..	Tons 2,088	..	Tons 231	..	

ABSTRACT.

			Sál logs and poles.	Tons 59	..	..	Tons 419½	..	Tons 478½	..	..	Tons 382½	..	Tons 96	..	
			Red saunders ..	,, ¼	..	..	,, 2,076⅞	..	,, 2,077⅛	..	..	,, 1,689¾	..	,, 387⅜	..	
			Miscellaneous ..	,, 86¾	..	..	,, 190	..	,, 276¾	..	..	,, 174¾	..	,, 101	..	
			Sleepers, rafters, posts, &c. ..	,, 53½	..	..	,, 236	..	,, 289½	..	..	,, 275¾	..	,, 13¾	..	
			Total timber ..	Tons 199½	..	..	Tons2,922⅜	..	Tons3,121⅞	..	..	Tons2,522¾	..	Tons 598⅛	..	
			Fuel and charcoal.	Tons 2,323	..	..	Tons4,770½	..	Tons7,093½	..	..	Tons6,374½	..	Tons 719	..	
							lb. 312	..	lb. 312	..	..	lb. 204	..	lb. 108	..	
			Bamboos ..	..	..	..	Tons 1½	..	Tons 1½	..	..	Tons 1½	..	..	..	
			Minor produce.	,, 75¾	..	..	,, 76¼	..	,, 152	..	..	,, 42¼	..	Tons 109¾	..	
							lb. 20	..	lb. 20	..	..	..	..	lb. 20	..	

Annual Form No. 71.

Forest Department, Madras, Northern Circle.

Sales of timber and other produce cut and collected by Government Agency during the year 1887-88.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
				SOLD FROM DEPOT.				Rs. A. P.	Rs. A. P.		
Ganjam ..	..	Russellkondah ..	I (*a*)	Sál logs	13	89	Auction.	10 3 0	7 0 0	..	..
				,, sleepers	1,130	2,486	..	1,902 12 0	1,902 12 0	..	..
				Sajo logs	17	279	..	124 14 0	124 14 0	..	..
				,, planks	* 2	8	..	..	..	..	..
				Dhau logs	3	40	Auction.	1 0 0	..	..	..
				,, planks	* 2	8	..	..	..	..	..
				Ebony logs	2	15	..	0 8 0	..	..	..
				Blackwood logs	2	13	..	0 12 0	0 12 0	..	..
				Satinwood planks ..	* 2	8	..	..	..	..	..
				Piasál ,, ..	7	4	..	2 0 0	..	..	..
				,, rafters	4	4					
				Miscellaneous logs ..	37	236	..	5 0 0	1 8 0	..	..
				,, planks ..	* 31	20	..	..	..	..	..
				Slabs, tides, &c.	* 3,058		..	† 213 5 0	164 5 5	..	..
	..	Berhampore ..	Do.	Sál logs	7	55	..	42 12 0	42 12 0	..	..
				,, sleepers	315	667	..	595 10 0	595 10 0	..	..
				,, rafters	167	370	..	543 8 0	543 8 0	..	..
				Miscellaneous logs ..	3	21	..	15 12 0	15 12 0	..	..
				Do. slabs ..	270	21	..	64 9 8	64 9 8	..	..
	..	Gopálpur	Do.	Sál poles	88	558	Auction.	147 0 0	147 0 0	..	..
				,, sleepers	929	1,887	..	1,304 0 0	109 4 7	..	..
				Scantlings	111	2,069	Rs. 1-4-6 each c.ft.	265 1 4	..	..	..
				Slabs, &c.	513	..	Auction.	47 15 0	47 15 0	..	..
				Total, Timber ..	64,070	8,837 or Tons 167½	..	5,286 10 0	3,767 10 8	..	..
	..	Russellkondah ..	I (*c*)	Bamboos	110 or Tons 1½	..	Auction.	1 8 0	1 8 0	..	..
				Total, Bamboos ..	110 or Tons 1½	..	..	1 8 0	1 8 0	..	..
				Total, Ganjam ..	..	..	..	5,288 2 0	3,769 2 8	..	..

† This amount includes the cost of items marked thus *

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
Godávari ..	..	Madras	I (*a*)	Ironwood	1	14	Rs. 0 12 0 per c. ft.	10 8 0	29 0 0	Lgs. 4	..
				Miscellaneous wood ..	3	28	,, 0 12 0 ,, ,, 0 10 0 ,,	18 8 0			
				Total, Timber ..	4	42 = 1 Ton	..	29 0 0	29 0 0	..	..
				Total, Godávari ..	..	..	..	29 0 0	29 0 0	..	..
Kistna ..	.. ..	Bezváda	$I_1(b)$	Firewood	Tons 11	..	Auction.	25 7 0	25 7 0	..	..
				Total, Fuel ..	Tons 11	..	..	25 7 0	25 7 0	..	..
				Total, Kistna ..	..	..	..	25 7 0	25 7 0	..	..
Nellore ..	..	Madras	I (*a*)	Narudu poles	122	122	Rs. 0 1 6 ,, 0 10 6 each.	11 5 0	11 5 0	122	..
				Total, Timber ..	122	122 = 2 Tons	..	11 5 0	11 5 0	122	..
			I (*b*)	Firewood	2,512,698	Tons 3,414	Rs. 3 10 0 to ,, 20 0 0 per 1,000.	22,555 13 0	22,555 13 0	All removed.	..
				,, bundles ..	16,255	Do. 457	As. 3 to 3½ each.	3,389 7 9	3,389 7 9		
				,, casuarina ..	..	Do. 391	Rs. 5 to 9 per ton.	3,082 9 1	3,082 9 1		
				Total, Fuel ..	..	Tons 4,262	..	29,027 13 10	29,027 13 10	..	..
			I (*c*)	Suratichekka	Mds. 79¾	..	..	352 0 0	352 0 0	All removed.	..
				Nux-vomica	,, 471½	..	..	282 0 0	282 0 0		
				Rattan bundles ..	,, 169	..	Rs. 5 12 0 per bundle.	971 6 0	971 6 0		
				Total, Minor produce ..	Mds. 720	or Tons 8	..	1,605 6 0	1,605 6 0	..	..
				Total, Nellore ..	..	..	..	30,644 8 10	30,644 8 10	..	..
Cuddapah.	..	Kodúr	I (*a*)	Redwood roots, &c. ..	Tons 900	..	Rs. 17 12 0 per ton.	15,975 0 0	15,975 0 0	Tons 400	Tons 500
	..	Peddapad		Do. do. ..	100	..	..	1,775 0 0	1,775 0 0	,, 100	..
	..	Orampád		Do. refusewood ..	4	..	,, 2 0 0 per ton.	8 0 0	8 0 0	4	..
	..	Badvél		Do. do. ..	680	..	,, 17 0 0 ,,	11,560 0 0	11,560 0 0	340	Tons 340
				Do. &c., poles ..	75	..	Auction.	6 0 3	6 0 3	75	..
	..	Cuddapah		Do. &c., rafters ..	80	..	..	11 9 8	11 9 8	150	..
				Miscellaneous wood ..	70	..					
				Total, Timber ..	Tons 1,688½	..	..	29,335 9 11	29,335 9 11	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								RS. A. P.	RS. A. P.		
Cuddapah —*cont.*	..	Rájampet	I (*b*)	Firewood	Tons. 1½	..	Auction.	7 0 0	7 0 0	Tons 1½	..
				Total, Fuel ..	1½	..	..	7 0 0	7 0 0	..	..
	..	Cuddapah	I (*e*)	Gallnuts	Maunds 1,348	..	Rs. 2 0 0 / ,, 0 10 6 per md.	939 11 6	939 11 6	All removed.	..
	..	Voyalpád		Tengedu bark	210	..	Auction.	134 12 0	134 12 0		
	..	Madanapalle ..		Mangoes ..	No. 1,636= Maunds 22	..	Do.	48 11 6	48 11 6		
				Total, Minor produce ..	Mds. 1,580	= 17½ Tons.	..	1,123 3 0	1,123 3 0	..	..
				Total, Cuddapah ..	..	..	..	30,465 12 11	30,465 12 11	..	..
Anantapur.	..	Gooty	I (*a*)	Babul beam	1	12	Auction.	4 4 0	4 4 0	Beam 1	..
				Total, Timber ..	1	12 = ¼ Ton.	..	4 4 0	4 4 0	1	..
	..	Bukkapatuam ..	I (*e*)	Honey	Maunds 118	..	Rs. 2 4 0 / ,, 2 0 0 / ,, 1 14 0 per md.	226 9 8	226 9 8	Maunds 118	..
				Wax	3½	..	..	28 15 4	28 15 4	,, 3½	..
				Gallnuts B.	1	..	,, 0 6 0	0 6 0	0 6 0	,, 1	..
				,, C.	75¾	..	,, 0 10 0 / ,, 0 9 0 a md.	43 11 5	43 11 5	,, 75¾	..
				Gum	20¾	..	,, 2 8 0 / ,, 2 4 0 ,,	51 7 3	51 7 3	,, 20¾	..
				Total, Minor produce.	Maunds 219	= 2½ Tons.	..	351 1 8	351 1 8	..	..
				Total, Anantapur ..	..	..	..	355 5 8	355 5 8	..	..
Nílgiris ..	..	Coonoor	I (*a*)	Acacia planks 1"	62	41	Rs. 0 10 6 / ,, 0 7 0 each.	34 2 0	34 2 0	All removed.	..
				,, rafters	183	183	,, 0 5 6 / ,, 0 7 0 / ,, 0 10 6 / ,, 0 11 0 / ,, 0 14 0 ,,	130 1 4	130 1 4		
				Drag poles	2,190	2,910	,, 0 2 0 auction.	489 9 0	489 9 0		
				Total, Timber ..	3,155	3,134 or 62⅔ Ts.	..	653 12 4	653 12 4	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head-	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
Nílgiris—*cont.*	..	Ootacamund ..	I (*b*)	Firewood	Tons 658	..	Rs. 3 0 0 per 1,000 lb. ,, 3 2 0	4,424 11 6	4,301 3 0	All removed.	..
	..	Coonoor	Do.	Charcoal	,, 11½	..	,, 47 6 3 a ton.	545 0 0	545 0 0		
	..	Wellington ..	Do.	Firewood	,, 143	..	,, 5 5 8 ,,	783 14 0	783 14 0		
				Do.	,, 913	..	,, 6 9 0 ,,	5,993 1 2	5,993 1 2		
				Do. (bark, &c.) ..	,, 22⅔	..	Auction.	23 5 10	23 5 10		
				Charcoal	,, 5⅔	..	,, 49 13 1 a ton.	274 0 0	270 0 0		
				Total, Fuel and Charcoal.	Tons 1,753½	..	..	12,044 0 6	11,916 8 0	..	..
				Total, Nílgiris ..	..	..	..	12,697 12 10	12,570 4 4	..	..
				Total sold from depôt ..	..	..	..	79,506 1 3	77,859 9 5	..	..
				SOLD LOCALLY.							
Ganjam ..	..	Mojjagodo ..	I (*a*)	Sál logs	209	2,342 or 47 Tons	Rs. 0 4 6 per c.ft.	658 11 0	658 11 0	209	2,342
	..	Berhampore ..	..	Do.	1	6	..	1 6 0	1 6 0	..	..
				Total, Timber ..	210	2,348 or 47 Tons	..	660 1 0	660 1 0	209	2,342
			I (*b*)	Firewood	Tons 247⅓	..	Auction.	193 7 10	60 15 10	..	..
			I (*e*)	Tamarind	Ton ¼	..	Do.	8 2 0	8 2 0	..	..
				Total, Ganjam ..	..	..	..	861 10 10	729 2 10	..	..
Godávari ..	..	Rékapalli	I (*a*)	Ironwood	10	125 or 2½ Tons	Rs. 0 8 0	62 8 0	62 8 0	10	..
				Total, Timber ..	10	125 or 2½ Tons	..	62 8 0	62 8 0	10	..
				Total, Godávari ..	..	..	..	62 8 0	62 8 0	..	..
Kistna ..	..	Bezváda	I (*a*)	Tumma poles	14	14	Auction.	12 12 0	12 12 0	All removed.	..
	..	Palnád		Margosa poles	719	200	..	26 0 0	26 0 0		
	..	Do.		Do. sticks	..	20	..	1 0 0	1 0 0		
	..	Bandar		Casuarina poles	30	30	Rs. 0 6 0 each.	11 4 0	11 4 0		
	..	Bápatla and Krosur..		Miscellaneous wood ..	..	240	Auction.	12 10 0	12 10 0		
				Total, Timber ..	763	504 or 10 Tons	..	63 10 0	63 10 0	..	..
	..	Bezváda	I (*b*)	Tumma fuel	Tons 36	..	Auction.	69 4 0	69 4 0	All removed	..
	..	Bápatla	..	Firewood	,, 19	..	..	7 10 3	7 1 3		
				Total, Fuel ..	Tons 55	..	..	76 14 3	76 5 3	..	..

Sale of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								RS. A. P.	RS. A. P.		
Kistna—*cont.*	..	Palnad	I (*e*)	Soapunts	Mds. 4	..	Auction.	3 0 0	3 0 0	..	..
				Total, Minor produce ..	Mds. 4	..	..	3 0 0	3 0 0	..	..
				Total, Kistna ..	..	..	..	143 8 3	142 15 3	..	..
Nellore.	..	Plantation	I (*a*)	Casuarina poles	200	216	..	55 1 4	..	..	..
				Stakes and pegs	24,000	557	..	120 0 0	175 1 4	..	..
				Total, Timber ..	24,200	773 or 15½ Tons.	..	175 1 4	175 1 4	..	..
	..	Plantation S. ..	I (*b*)	Casuarina wood	Tons. 207	..	Rs. 3 to 5-8-0	874 10 0	874 10 0	..	Not removed.
		Do. N. ..	..	,, ,, ...	,,. 31	..	Rs. 2-14-0 to 5-4-0	124 8 9	124 8 9	Removed.	..
				,, roots, stumps, &c.	40	..	Auction.	127 15 6	127 15 6		
				Rent for wood unremoved.	..	..	..	154 0 0	154 0 0		
				Total, Fuel ..	Tons. 278	..	..	1,281 2 3	1,281 2 3	..	..
	..	Sríharikót	I (*e*)	Deposit for suratichekka.	..	..	..	50 0 0	50 0 0	..	..
				,, chayroot ..	..	..	..	200 0 0	200 0 0	..	..
				Balance received for do.	..	..	..	750 0 0	750 0 0	..	..
				Casuarina seed	Md. ½	..	..	2 0 0	2 0 0	..	..
				Total, Minor produce.	Md. ½	..	..	1,002 0 0	1,002 0 0	..	..
				Total, Nellore ..	..	..	..	2,458 3 7	2,458 3 7	..	..
Cuddapah.	..	Kodúr	I (*a*)	Red sander poles ..	237	237	Auction.	101 10 0	101 10 0	All removed.	..
				Miscellaneous	28	28	..	6 1 0	6 1 0		
	..	Rajampet	Do.	Red sander posts ..	575	575	..	49 0 0	49 0 0		
				Miscellaneous	79	79	..	10 6 0	10 6 0		
	..	Voyalpád	Do.	,,	344	344	..	266 11 0	266 11 0		
				Total, Timber ..	1,263	1,263 or 25 Tons.	..	433 12 0	433 12 0	..	..
	..	Kodúr	I (*c*)	Bamboos	19,270	..	Auction.	253 9 0	253 9 0	All removed.	..
	..	Rajampet		,,	120	..	Rs. 1-4-0 per 100.	1 8 0	1 8 0		
				Total, Bamboos ..	19,390	or 388 Tons.	..	255 1 0	255 1 0	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
Cuddapah —*cont.*	..	All ranges ..	I (*e*)	Tangedu bark	Mds. 148	..	Auction.	97 0 0	97 0 0	All removed.	..
	..	Madanapalle, &c. ..	Do.	Mangoes	No. 9,432 = Mds. 126		As. 4 per 100 ,, 3 ,, 100 Auction.	24 8 0	24 8 0		
	..	Do. ..	Do.	Pomegranites	No. 96 = Mds. 2		Do.	3 0 0	3 0 0		
	..	Do. ..	Do.	Coffee	Mds. 1¼	..	..	10 8 0	10 8 0		
				Total, Minor produce ..	Mds. 277¼	= 3 Tons.	..	135 0 0	135 0 0	..	..
				Total, Cuddapah ..	..	..	..	823 13 0	823 13 0	..	..
Kurnool ..	..	Nandyál ..	I (*b*)	Firewood	Tons 191	..	..	1,003 11 0	1,003 11 0	Removed.	..
				Total, Fuel ..	Tons 191	..	..	1,003 11 0	1,003 11 0	..	..
	..	Sirvel and Velgode.	I (*e*)	Honey	Mds. 10	..	..	20 0 0	20 0 0	Removed.	..
				Wax	,, 2¾	..	..	36 0 0	36 0 0		
				Total, Minor produce ..	Mds. 12¾	..	..	56 0 0	56 0 0	..	..
				Total, Kurnool ..	..	..	..	1,059 11 0	1,059 11 0	..	..
Bellary ..	..	Sandúr ..	I (*a*)	Teak poles	682	2,046	Rs. 1 2 0 each	767 4 0	767 4 0	All removed.	..
					13	39	Auction.	7 0 0	7 0 0		
				,, rafters	925	1,850	Rs. 0 14 8 per 100.	134 2 0	134 2 0		
					100	200	,, 12 0 0 per 100.	12 0 0	12 0 0		
					1	2	..	0 4 4	0 4 4		
				Total, Timber ..	1,721	4,137 or 82½ Tons	..	920 10 4	920 10 4	..	..
	..	Do.	I (*b*)	Firewood stacks	Tons 365	..	* ..	1,681 14 0	1,681 14 0	Removed.	..
				Brushwood	,, 39	..	..	57 12 0	57 12 0		
				Charcoal	Mds. 9	..	Rs. 0 5 9 a md.	3 3 6	3 3 6		
				Total, Fuel ..	Tons 404	..	..	1,742 13 6	1,742 13 6	..	..

* 50 Tons at Rs. 5-10- 3 .. .. = Rs. A. P. 282 0 0
54 ,, at ,, 4-14-10 .. .. = 266 0 0
257 ,, at ,, 4- 5-10 .. .. = 1,121 14 0
4 ,, at ,, 3- 0- 0 .. .. = 12 0 0

Total .. 1,681 14 0

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
	..	Sandúr	I (*c*)	Large bamboos	212	..	Rs. 6 8 0 per 100	13 13 0	13 13 0	Removed.	..
				Small ,, ...	76,166	..	,, 2 12 0 ,,	2,094 9 5	2,094 9 5		
				Total, Bamboos ..	76,378	or 1,018 Tons.	..	2,108 6 5	2,108 6 5	..	..
Bellary—*cont.*	..	Do.	I (*e*)	Gallnuts	Mds. 23	..	Rs. 0 4 0 a md.	5 12 0	5 12 0	..	..
				Honey	,, 3	..	,, 5 8 11 ,,	16 10 9	16 10 9	..	..
				Wax	,, 1	..	..	9 6 0	9 6 0	..	..
				Sheakoy	,, 10	..	,, 1 4 0 a md.	12 8 0	12 8 0	..	..
				Gum	,, 1½	..	,, 1 8 11 ,,	2 5 4	2 5 4	..	..
				Total, Minor produce ..	Mds. 38½	or ½ Ton.	..	46 10 1	46 10 1	..	..
				Total, Bellary ..	..	..	..	4,818 8 4	4,818 8 4	..	..
	..	Gooty	I (*a*)	Babul beam	1	12	Auction.	5 10 0	5 10 0	Removed.	..
	..	Anantapur	Do.	Palmyra trees	15	120	Rs. 3 0 0 each.	45 0 0	45 0 0		
				,, reepers	200	300	Auction.	67 11 0	67 11 0		
				Total, Timber ..	216	432 or 8⅔ Tons.	..	118 5 0	118 5 0	..	..
	..	Gooty	I (*b*)	Firewood	Ton 1	..	Auction.	2 12 0	2 12 0	..	..
				Total, Fuel ..	Ton 1	..	..	2 12 0	2 12 0	..	..
Anantapur	..	All ranges	I (*c*)	Gum	Mds. 21¾	..	Rs. 2 4 0 / ,, 2 8 0 / ,, 2 12 0 a md.	50 6 3	50 6 3	Removed.	..
				Honey	,, 2	..	Auction.	6 10 0	6 10 0		
				Wax	,, 1¾	..	,, 8 0 0 / ,, 9 0 0 a md.	12 6 2	12 6 2		
	..	..	I (*c*)	Gallnuts	Mds. 28¾	..	0 9 0 / 0 10 6 / 0 11 0 a md.	17 0 10	17 0 10	Removed.	..
				Kanuga seeds	,, 3¼	..	Auction.	1 0 0	1 0 0		
				Palmyra leaves	No. 150	or 5 Mds.	Do.	0 4 0	0 4 0		
				Total, Minor produce ..	Mds. 62½	or ¾ Ton.	..	87 11 3	87 11 3	..	..
				Total, Anantapur ..	..	..	..	208 12 3	208 12 3	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
	..	Mudumalai range ..	I (*a*)	Teak	..	1,000	Rs. 0 8 0 c.ft.	500 0 0	500 0 0	..	1,000 c.ft.
				,, ...	2	46	,, 0 12 0 ,,	45 0 0	45 0 0	Logs 2	..
				,, poles	7 / 59	396	,, 0 8 0 / ,, 0 4 0 each.	3 8 0 / 14 12 0	3 8 0 / 14 12 0	Poles 66	..
	..	Coonoor do. ..	Do.	Drag ,, ...	87	87	Auction.	22 2 6	22 2 6	..	..
				Total, Timber ..	..	1,213 or 31 Tons	..	585 6 6	585 6 6	..	..
	..	Ootacamund ..	I (*b*)	Firewood (blue gum) ..	Tons 2,056	..	..	5,614 5 0	5,614 5 0	..	..
				,, (sholawood) ..	,, 160	..	..	458 2 0	458 2 0	..	..
	..	Coonoor	..	,, (blue gum) ..	,, 323	..	..	1,898 6 0	1,801 12 8	..	..
				,, (sholawood) ..	,, 303	..	..	825 2 6	825 2 6	..	..
				,, (acacia)	,, 16	..	..	43 8 0	43 8 0	..	..
Nílgiris ..				Charcoal	,, 4	..	..	117 10 1	106 8 0	Tons 4	..
				Total, Fuel and charcoal ..	Tons 2,862	..	..	9,130 10 7	9,019 15 2	..	..
	..	Sigúr	I (*d*)	Sandalwood billet and root	Mds. 1,375 / ,, 82	..	Rs. 4 0 0 a md. / ,, 3 10 0 ,,	5,500 0 0 / 297 4 0	5,500 0 0 / 297 4 0	Mds. 1,375 / ,, 82	.. / ..
				Sandalwood chips ..	,, 100	..	,, 0 1 0 ,,	6 4 0	6 4 0	,, 100	..
				Total, Sandalwood ..	Mds. 1,557	or 17¼ Tons.	..	5,803 8 0	5,803 8 0	..	..
	..	All ranges	I (*e*)	Honey	Mds. 53	..	Average. Rs. 3 4 6 a mds. ,, 0 4 5 a bottl.	174 0 9	174 0 9	..	..
	..	Coonoor	..	Coffee	,, 2½	..	..	25 0 0	25 0 0	..	..
				Timber saw dust	..	..	..	3 0 0	3 0 0	..	..
				Deposit for gallnuts ..	..	..	..	300 0 0	300 0 0	..	..
				Total, Minor produce ..	Mds. 55½	or ½ Ton.	..	502 0 9	502 0 9	..	..
				Total, Nílgiris ..	..	..	..	16,021 9 10	15,910 14 5	..	..
				Total locally sold ..	..	..	..	26,458 5 1	26,214 8 8	..	..
				Drift wood.							
Godávari ..	..	Godávari river ..	III ..	Teak	1,798	7,249	Auction.	5,988 7 3	5,988 7 3	All removed.	..
				Miscellaneous	1,751	12,329	..	2,332 9 6	2,332 9 6		
				Boat	1	1,080	..	270 0 0	270 0 0		
				Total, Timber ..	3,550	20,658 or 413 Tons.	..	8,591 0 9	8,591 0 9	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
							Rs. A. P.	Rs. A. P.	Rs. A. P.		
Godávari—*cont.*	..	Godávari river ..	III ..	Fuel	Tons 150	..	..	347 13 4	347 13 4	..	..
				Total, Fuel ..	Tons 150	..	..	347 13 4	347 13 4	..	..
				Bamboos	6,330 or 84 Tons.	..	..	41 5 3	41 5 3	..	..
				Total, Bamboos ..	6,330 or 84 Tons.	..	..	41 5 3	41 5 3	..	..
				* Deduct about one-fourth amount paid for salving and refunds and other charges	..	..	..	8,980 3 4	8,980 3 4	..	..
					..	..	..	— 2,388 11 6*	— 2,388 11 6*	..	..
				Total, Godávari ..	..	..	..	6,591 7 10	6,591 7 10	..	..
				Confiscated and Waif-wood.							
Ganjam ..	..	..	do.	..	..	..	..	155 5 8	155 5 8	..	..
Vizagapatam	..	..		..	..	..	..	22 3 7	22 3 7	..	..
Godávari ..	..	..		..	..	..	..	148 5 10	148 5 10	..	..
Kistna ..	..	..		..	..	..	..	327 8 5	327 8 5	..	..
Nellore ..	..	..		..	..	..	..	60 15 1	60 15 1	..	..
Cuddapah ..	..	..		..	..	..	..	846 7 7	846 7 7	..	..
Kurnool ..	..	..		..	..	..	..	1,000 8 1	1,000 8 1	..	..
Bellary ..	..	..		..	..	..	..	124 3 4	124 3 4	..	..
Anantapur ..	..	..		..	..	..	..	45 1 0	45 1 0	..	..
Nilgiris ..	..	..		..	..	..	..	6 11 6	6 11 6	..	..
				Total III ..	..	..	..	2,737 6 1	2,737 6 1	..	..
				Total . Sold from Depôt ..	..	..	..	79,506 1 3	77,859 9 5	..	..
				,, Locally ..	..	..	..	26,458 5 1	26,214 8 8	..	..
				,, Drift ..	..	..	..	9,328 13 11	9,328 13 11	..	..

			Abstract of amount realized.
	Total ..	1,15,293 4 3	1,13,403 0 0	I (*a*)	37,133
Add—Outstandings due from previous year as per Form No. 66	.. ..	3,663 10 5	3,663 10 5	I (*b*)	57,517
				I (*c*)	2,365
	Total ..	1,18,956 14 8	1,17,066 10 5	I (*d*)	5,804
				I (*e*)	4,920
Deduct—Amount realized during the year		1,17,066 10 5		III	9,328
Balance outstanding on 31st March 1888 as per Form No. 66		1,890 4 3		Total ..	1,17,067

Annual Form No. 72.

Forest Department, Madras, Northern Circle.

Timber and other produce cut, collected, and removed from the forests by consumers or purchasers, including pasture, during the year 1887-88.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Ganjam ..	Timber	8	50	50	
	Auction sale-proceeds of trees.. ..	..	75	75	
	Total, Timber ..	8	125	125	II (*a*).
	Firewood	24,428⅓	10,661	10,661	
	Factory and Department of Public Works fuel.	1,481	161	161	
	Charcoal	69	235	235	
	Total, Firewood and Charcoal ..	25,978½	11,057	11,057	II (*b*).
	Bamboos	4,371	3,533	3,533	
	Total, Bamboos ..	4,371	3,533	3,533	II (*c*).
	Lease of fruits in different topes ..	..	669	669	
	Total, Minor Produce ..	..	669	669	II (*e*).
	Grand Total ..	30,357½	15,384	15,384	
Vizagapatam	Timber	1⅓	6	6	
	Miscellaneous timber	355	516	516	
	Sale of trees on darkhast lands ..	..	622	622	
	Sale of withered trees	..	19	19	
	Total, Timber ..	356½	1,163	1,163	II (*a*).
	Firewood	3,151⅓	2,087	2,087	
	Charcoal	141	426	426	
	Total, Firewood and Charcoal ..	3,292½	2,513	2,513	II (*b*).
	Bamboos	823	1,518	1,518	
	Total, Bamboos ..	823	1,518	1,518	II (*c*).
	Sale of fruit trees	..	26	26	
	Sale of palmyra leaves	..	13	13	
	Leaves for manure	4	9	9	
	Rough stone	39½	5	5	
	Tangedu bark	10½	32	32	
	Total, Minor Produce ..	54	85	85	II (*e*).
	Grand Total ..	4,526	5,279	5,279	
Godávari ..	Timber	5,907½	30,843	30,843	
	Sale of trees on darkhast lands ..	..	1,131	1,131	
	Total, Timber ..	5,907½	31,974	31,974	II (*a*).
	Firewood	7,356½	5,400	5,400	
	Do. Marine Department contract.	675	100	100	
	Sale of dead trees	..	7	7	
	Charcoal	103	508	508	
	Total, Firewood and Charcoal ..	8,134½	6,015	6,015	II (*b*).
	Bamboos	14,222½	11,497	11,497	
	Total, Bamboos ..	14,222½	11,497	11,497	II (*c*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
	Grazing	..	947	947	
	Total, Grazing ..	..	947	947	II (*d*).
Godávari—*cont.*	Lease of Tangedu bark..	..	255	255	
	Tangedu bark	123½	374	374	
	Rough stone, &c.	357½	50	50	
	Sale-proceeds of usufruct of trees in Ashalaminha lands.	..	5,943	5,943	
	Other minor produce	..	6,210	6,210	
	Total, Minor Produce ..	481	12,832	12,832	II (*e*).
	Grand Total ..	28,745½	63,265	63,265	
	Timber	3,993	7,729	7,729	
	Palmyra trees	1,151	2,878	2,878	
	Sale of trees on darkhast lands ..	..	1,573	1,573	
	Do. on poramboke lands ..	..	6,324	6,324	
	Total, Timber ..	5,144	18,504	18,504	II (*a*).
	Firewood	13,625½	7,612	7,612	
	Charcoal	18	90	90	
	Total, Firewood and Charcoal ,,	13,643½	7,702	7,702	II (*b*).
Kistna ..	Bamboos	743½	2,000	2,000	
	Total, Bamboos ..	743½	2,000	2,000	II (*c*).
	Grazing	..	39,854	38,711	
	Total, Grazing ..	..	39,854	38,711	II (*d*).
	Palmyra leaves	2,030	849	812	
	Stone	..	151	137	
	Tangedu bark	...	5,087	5,087	
	Other minor produce	..	4,109	3,571	
	Total, Minor Produce ..	2,030	10,196	9,607	II (*e*).
	Grand Total ..	21,561	78,256	76,524	
	Palmyra trees	191	637	637	
	Timber	202	575	575	
	Sale of trees in Ashalaminha and darkhast lands.	..	5,231	5,231	
	Total, Timber ..	393	6,443	6,443	II (*a*).
	Firewood..	1,422	1,422	1,422	
	Sale of firewood in Ashalaminha and darkhast lands.	..	848	848	
		1,422	2,270	2,270	
	Add outstanding from previous year ..	..	..	599	
	Total, Firewood ..	1,422	2,270	2,869	II (*b*).
Nellore ..	Bamboos	4	11	11	
	Total, Bamboos ..	4	11	11	II (*c*).
	Grazing and fodder grass	..	12,784	12,784	
	Total, Grazing and Fodder Grass ..	..	12,784	12,784	II (*d*).
	Rents of jungle products	..	87	87	
	Rents of topes, &c.	..	2,365	2,365	
	Rents and sale of palmyra leaves ..	...	168	168	
	Rents on Tangedu bark	..	18,058	18,058	
	Other minor produce	..	1,085	1,085	
		..	21,763	21,763	
	Add outstanding from previous year ..	..	..	337	
	Total, Minor Produce ..	..	21,763	22,100	II (*e*).
	Grand Total ..	1,819	43,271	44,207	

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Cuddapah ..	Miscellaneous timber	3,721	12,929	12,923	
	Trees on darkhast lands	1,423	5,295	5,295	
	Total, Timber ..	5,144	18,224	18,218	II (*a*).
	Firewood	12,191	9,530	9,527	
	Deadwood	1,344	1,770	1,770	
	Greenwood	480	480	480	
	Engine fuel	13,690	30,907	30,907	
	Trees on village waste	4,841	2,396	2,396	
	Charcoal	298	1,506	1,504	
	Total, Firewood and Charcoal ..	32,844	46,589	46,584	II (*b*).
	Bamboos	8,774	6,412	6,411	
	Total, Bamboos ..	8,774	6,412	6,411	II (*c*).
	Fodder grass	294	258	252	
	Grazing fees	..	975	975	
	Total, Grazing and Fodder grass ..	294	1,233	1,227	II (*d*).
	Tangedu bark	764	3,890	3,890	
	Miscellaneous barks	64	151	151	
	Leaves for manure	215	536	535	
	Amroy	3,351	31,656	31,656	
	Palmyra leaves	63	25	25	
	Other minor produce	740	3,535	3,535	
	Total, Minor Produce ..	5,197	39,793	39,792	II (*e*).
	Grand Total ..	52,253	1,12,251	1,12,232	
Kurnool ..	Timber	8,500	35,397	35,397	
	Total, Timber ..	8,500	35,397	35,397	II (*a*).
	Firewood	9,350			
	Dead trees on darkhast lands ..	938	11,288	11,288	
	Charcoal	377			
	Engine fuel	3,965	4,112	4,112	
	Total, Firewood and Charcoal ..	14,630	15,400	15,400	II (*b*).
	Bamboos	5,175	16,885	16,885	
	Total, Bamboos ..	5,175	16,885	16,885	II (*c*).
	Grazing	..	4,888	4,888	
	Total, Grazing ..	..	4,888	4,888	II (*d*).
	Minor produce	550	3,044	3,044	
	Total, Minor Produce ..	550	3,044	3,044	II (*e*).
	Grand Total ..	28,855	75,614	75,614	
Bellary ..	Timber	315	895	895	
	Palmyra trees	42	347	347	
	Sale of trees on darkhast lands ..	..	1,835	1,835	
	Total, Timber ..	357	3,077	3,077	II (*a*).
	Firewood	76½	195	195	
	Deadwood	3,279½	2,436	2,436	
	Do. sold by auction	..	722	722	
	Charcoal	193½	968	968	
	Total, Firewood and Charcoal ..	3,549½	4,321	4,321	II (*b*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Bellary—*cont*	Bamboos	12	30	30	
	Total, Bamboos ..	12	30	30	II (*c*).
	Fodder grass	219½	139	139	
	Grazing fees	..	264	264	
	Total, Grazing and Fodder Grass ..	219½	403	403	II (*d*).
	Tangedu bark	1,205½	7,232	7,232	
	Miscellaneous barks	5	25	25	
	Soapstone	23½	3	3	
	Leaves for manure	124½	97	97	
	Palmyra leaves	5	2	2	
	Rent of fruit trees	..	8,415	8,415	
	Total, Minor Produce ..	1,363½	15,774	15,774	II (*e*).
	Grand Total ..	5,501½	23,605	23,605	
Anantapur ..	Timber	373½	1,009	1,009	
	Palmyra trees	35	290	290	
	Miscellaneous trees	43	108	108	
	Trees on lands given on patta ..	..	846	846	
	Total, Timber ..	451½	2,253	2,253	II (*a*).
	Firewood	907½	641	641	
	Deadwood	470½	627	627	
	Total, Firewood ..	1,378	1,268	1,268	II (*b*).
	Bamboos	502	429	429	
	Total, Bamboos ..	502	429	429	II (*c*).
	Grass	..	16	16	
	Total, Grazing ..	..	16	16	II (*d*).
	Tangedu bark	828	7,594	7,594	Includes Rs. 2,626, amount of deposit.
	Do. leaves	2,864½	1,790	1,790	
	Palmyra leaves	54	37	37	
	Amroy contract	..	2,598	2,598	
	Jolli do.	..	2,537	2,537	
	Total, Minor Produce ..	3,746½	14,556	14,556	II (*e*).
	Grand Total ..	6,078	18,522	18,522	
Nilgiris ..	Teak trees	209½	1,309	1,309	
	Miscellaneous trees	789	1,408	1,408	
	Total, Timber ..	998½	2,717	2,717	II (*a*).
	Firewood	1,469	3,273	3,273	
	Charcoal	7	67	67	
	Total ..	1,476	3,340	3,340	II (*b*).
	Add outstanding from previous year ..	..	..	194	
	Total, Firewood and Charcoal ..	1,476	3,340	3,534	
	Bamboos	1,603	2,056	2,056	
	Total, Bamboos ..	1,603	2,056	2,056	II (*c*).
	Grazing lease	..	165	165	
	Do. fees	..	309	309	
	Fodder grass	595	323	323	
	Total, Grazing and Fodder Grass ..	595	797	797	II (*d*).

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Nílgiris—*cont.*	Vembadam bark	3	62	62	
	Canes	20	40	40	
	Reeds	4	13	13	
	Wattle	3	14	14	
	Wild date leaves	2	3	3	
	Goa sticks	2	4	4	
	Coffee berries	Auction.	7	7	
	Manure	25	25	25	
	Total, Minor Produce	59	168	168	II (*e*).
	Grand Total	4,731½	9,078	9,272	
	Grand Total of Revenue of the Northern Circle under II.	184,947½	4,44,524	4,43,904	
Grand Total excluding outstandings from previous year.	II *a*		1,19,877	1,19,871	
	b		1,00,475	1,00,470	
	c		44,371	44,370	
	d		60,922	59,773	
	e		1,18,879	1,18,289	
		Total	4,44,524	4,42,773	
Add outstanding from previous year as per Form No. 66			1,209	1,131	
		Total	4,45,733	4,43,904	
Deduct amount realized during the year			4,43,904		
Balance outstanding on 31st March 1888 as per Form No. 66			1,829		

ANNUAL FORM NO. 73-A.

Forest Department, Madras, Northern Circle.

Abstract showing the value of timber and other produce at sale depôts, for the year 1887-88.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.
				Rs.			Rs.	Rs.	Rs.
Ganjam ..	Sál logs	274	2,906	1,454	664	4,843	2,425	971	..
	Do. sleepers ..	492	7	830	150	269	125	..	705
	Do. scantlings ..	..	..	..	50	151	75	75	..
	Do. slabs, &c. ..	1,687	..	100	..	..	..	..	100
	Do. poles	19	47	10	19	47	10	..	..
	Do. rafters ..	..	..	..	174	196	80	80	..
	Piasál logs	5	44	25	10	97	50	25	..
	Blackwood logs ..	4	28	19	1	3	2	..	17
	Miscellaneous logs ..	264	3,531	883	306	4,085	1,640	757	..
	Do. planks and rafters ..	883	139	25	2,475	93	30	5	..
	Ebony	5	32	32	3	46	50	18	..
	Demarcation posts ..	2,038	1,437	127	..	..	..	..	127
	Fuel &c.	Tons 14	700	5	Tons 7	..	3	..	2
	Minor produce ..	Mds. 903	or 10 Tons	113	807	or 9 Tons	100	..	13
	Total ..	..	Tons 187	3,623	..	Tons 206	4,590	967	..
Godávari ..	Ironwood	..	..	..	1	15	11	11	..
	Miscellaneous ..	..	..	..	3	29	19	19	..
	Total ..	..	..	..	4	44 or Ton 1	30	30	..
Nellore ..	Miscellaneous poles and sleepers ..	121	122	38	1	2	1	..	37
	Firewood	Tons 1,810	..	13,113	Tons 470	..	5,752	..	7,361
	Rattans	Bdls. 21	Mds. 10½	121	35 bdls. or 24½ mds.		201	80	..
	Suratichekka ..	Mds. 82	..	210	..	..	..	..	210
	Sarsaparilla ..	..	..	..	Mds. 5	..	15	15	..
	Total ..	Tons 1,813½	..	13,482	Tons 470⅓	..	5,969	..	7,513
Cuddapah.	Redwood roots and stumps	Tons ¼	12	5	Tons 387⅜	18,594	6,585	6,580	..
	Gallnuts	Mds. 2,252	..	1,261	Mds. 5,155	or 57¼ Tons	2,965	1,704	..
	Tangedu bark ..	,, 112	..	112	..	..	..	..	112
	Total ..	Tons 26½	..	1,378	Tons 444½	..	9,550	8,172	..
Kurnool ..	Gallnuts B	Mds. 1,530	Tons 17	191	1,530	Tons 17	191	..	..
	Total ..	Tons 17	..	191	Tons 17	..	191	..	..
Bellary ..	Fuel	..	..	..	Tons 11	..	60	60	..
	Kapila dye	..	..	..	lbs. 20	..	9	9	..
	Total ..	..	..	..	Tons 11	..	69	69	..
Anantapur.	Palmyra	..	..	..	1	2	1	1	..
	Minor produce ..	Mds. 1,938½	Tons 21½	2,353	Mds. 1,898	Tons 21	2,271	..	82
	Total ..	Tons 21½	..	2,353	Tons 21	..	2,272	..	81
Nílgiris ..	Acacia planks and rafters	447	447	826	211	211	53	..	773
	Drag poles	..	..	..	487	487	61	61	..
	Firewood and charcoal	Tons 499	..	3,238	Tons 231	..	1,566	..	1,672
	Total ..	Tons 508	..	4,064	Tons 245	..	1,680	..	2,384
	Grand Total ..	..	Tons 2,573	25,091	..	Tons 1,415	24,351	..	740

ANNUAL FORM No. 73-B.

Forest Department, Madras, Northern Circle.

Return of stores, tools, and plant on 1st April 1888.

District.	Description of stores, &c.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		Number.	Value.	Number	Value.	In favor of the year	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Direction ..	Surveying and other instruments.	22	531	15	184	..	..	Addition of 1 brass parallel ruler and transfer to other districts of 1 plane table and 7 prismatic compasses.
	Furniture	71	882	75	945	..	..	
	Letter-weighing scales with weights.	..	..	2	108	..	..	
	Miscellaneous	8	39	3	39	..	..	
	Total ..	96	1,452	95	1,276	..	176	
Ganjam ..	Bungalow, head-quarters.	1	1,669	1	1,669	..	..	Russellkonda.
	Bungalow, inspection ..	4	750	7	2,420	..	..	Suradá, Berhampore, Mojjogodo and Kurcholy.
	Inspection huts	12	585	8	410	..	..	4 fell down.
	Guards' sheds	3	20	3	345	..	..	Gullery and Tilsingi.
	Furniture	35	336	36	303	..	..	
	Tools	222	323	219	316	..	..	3 unserviceable.
	Surveying and other instruments	27	198	28	243	..	..	
	Miscellaneous	1	8	1	8	..	..	
	Total ..	305	3,787	303	5,714	1,927	..	
Vizagapatam.	Sheds	2	45	2	45	..	..	
	Tools	5	2	5	2	..	..	
	Surveying and other instruments	17	162	17	162	..	..	
	Furniture	25	228	25	228	..	..	
	Total ..	49	437	49	437	..	..	
Godávari ..	Sheds	10	132	11	144	..	..	
	Rest-house	..	..	1	327	..	..	Wuddagudiem.
	Surveying and other instruments.	21	155	22	169	..	..	
	Tools	312	252	313	257	..	..	
	Furniture	27	344	55	496	..	..	
	Miscellaneous	35	83	62	83	..	..	
	Boat	..	..	1	1,500	..	..	
	Scales with tripods ..	..	..	3	413	..	..	
	Total ..	405	966	468	3,389	2,423	..	
Kistna ..	Surveying and other instruments.	16	192	24	575	..	..	
	Tools	246	145	270	174	..	..	
	Furniture	30	231	20	215	..	..	Rest issued to the Forest Settlement Officer.
	Boat's (Dingy)	..	..	2	280	..	..	
	Miscellaneous	..	..	10	33	..	..	
	Letter-weighing scales ..	..	..	1	10	..	..	
	Total ..	292	568	327	1,287	719	..	
Nellore ..	Cash safes	4	210	4	210	..	..	
	Scales and weights, sets.	7	744	7	744	..	..	
	Furniture	97	567	*96	565	..	..	* 1 Lantern out of use.
	Boxes	19	30	19	30	..	..	
	Tools	480	377	†457	360	..	..	† 57 worn out and 34 received during the year.
	Surveying and other instruments	45	274	46	275	..	..	
	Miscellaneous	‡16	8	..	..	..	..	‡ Worn out.
	Tramway	3	15,574	3	15,574	..	..	
	Boats	6	2,514	9	4,018	..	..	
	Total ..	677	20,298	641	21,776	1,478	..	

Return of stores, tools and plant on 1st April 1888—*cont.*

District.	Description of stores, &c.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Cuddapah ..	Bungalow, inspection ..	4	15,650	5	16,711	..	..	Kódúr, Sanipaya, Balapalle, Horsley-konda and Mogili-penta.
	Ranger's house	4	1,620	5	2,454	..	..	Kódúr, Sidhout, Rájampet and Badvél. A new house at Kódúr was built at a cost of Rs. 834.
	Office house	1	200	1	200	..	..	Kódúr.
	Sheds	61	1,085	75	1,414	..	..	
	Surveying and other instruments.	33	185	37	346	..	..	
	Tools	507	584	518	588	..	..	
	Furniture	59	580	69	645	..	..	
	Beam scales with weights.	..	..	1	155	..	..	
	Total ..	669	19,904	711	22,513	2,609	..	
Kurnool ..	Bungalow, head-quarters.	1	644	1	7,090	..	..	
	Bungalow, inspection ..	19	7,447	19	7,447	..	..	
	Rangers' houses ..	4	1,476	4	1,476	..	..	
	Sheds	14	1,065	19	1,889	..	..	
	Furniture	30	162	30	162	..	..	
	Tools	363	614	376	724	..	..	
	Surveying and other instruments.	26	214	28	341	..	..	
	Cash chest	1	8	1	8	..	..	
	Scales with weights ..	1	50	1	50	..	..	
	Total ..	459	11,680	479	19,187	7,507	..	
Bellary ..	Ranger's house	1	460	1	460	..	..	Sandúr.
	Surveying and other instruments.	17	125	24	188	..	..	
	Furniture	14	201	17	219	..	..	
	Tools	183	180	186	211	..	..	
	Scales with weights up to 500 lb.	1	272	1	272	..	..	
	Total ..	216	1,238	229	1,350	112	..	
Anantapur ..	Bungalow	1	440	1	500	..	..	Collapsed.
	Head-quarters bungalow.	1	6,469	1	6,469	..	..	
	Sheds	15	173	15	173	..	..	
	Surveying and other instruments.	42	126	42	*185	..	..	* Cost of 1 plane table, complete, with stand, omitted in the last year's return, is now included.
	Furniture	35	357	35	357	..	..	
	Cash safe with padlock.	1	12	1	12	..	..	
	Tools	144	147	147	281	..	..	
	Total	239	7,724	242	7,977	253	..	
Nilgiris ..	Sheds	26	3,232	36	3,662	..	..	
	Surveying and other instruments.	35	341	35	341	..	..	
	Charcoal kiln	1	582	1	582	..	..	
	Furniture	42	534	42	534	..	..	
	Tools	621	1,500	756	1,718	..	..	
	Elephants	2	3,000	2	3,000	..	..	
	Do. calf	1	500	2	700	..	..	
	Miscellaneous.							
	Chains of elephants ..	8	240	8	240	..	..	
	Total ..	736	9,929	882	10,777	848	..	
	Grand Total ..	4,143	†77,983	4,426	95,683	17,700	..	† Not 77,985 as erroneously given in the return for 1886-87.

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of Elephants in the Northern Circle during the year 1887-88.

PART I.

Elephants in possession of the Reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
				RS. A. P.	
Nilgiris ..	1. Lakshmi ..	Transferred from the Anamalais during 1882.	April 1887	159 10 0	
	2. Chinna Lakshmi..		May ,, ...	107 8 0	
	3. Mahabaksh (calf).		June ,, ...	109 2 0	
			July ,, ...	108 10 0	
			August ,, ...	143 14 0	
			September ,, ...	40 0 0	
			October ,, ...	144 11 1	
			November ,, ...	165 12 2	
			December ,, ...	116 4 5	
			January 1888	..	
			February ,, ...	187 8 6	
			March ,, ...	46 4 8	
			Total ..	1,329 4 10	

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
				RS. A. P.	
Nilgiris ..	1 Calf Elephant ..	Born on 22nd February 1888.	.....	..	

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	How disposed of.

Nilgiris—*Nil.*

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 30th November 1888, Forest No. 625:—

THE HON. W. S. WHITESIDE.

Read—the following letter from A. W. PEET, Esq., Acting Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 18th July 1888, No. 1251:—

I have the honor to forward the annual Forest Administration Report for the Northern Circle for the year 1887-88.

ENCLOSURE.—Administration Report for 1887-88.

Read—the following letter from J. W. CHERRY, Esq., Acting Conservator of Forests, Southern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 28th September 1888, No. 1832:—

I have the honor to submit the Annual Report of the Southern Circle for the year 1887-88, together with the prescribed appendices, excepting the one for exotics, which will be separately printed and forwarded in time to be submitted with the report to Government.

2. The report has this year been printed before submission to the Board in accordance with their instructions on last year's report. This has caused some delay, which I trust will not recur next year as we shall be in a better position to judge and allow for the time the printing takes.

3. The returns took a long time to compile, print and correct, and did not reach me for the commencement of the report, until the 8th of August, several references having had to be made to District Forest-officers regarding the correctness or meaning of their figures.

4. I have endeavoured to supply in this report all the omissions noticed by the Government in the last report, but it has not been easy as the Board's orders on the last Government review only reached me on the 6th of June or nearly a month after the District Forest-officers had submitted their reports.

5. I trust the Board will not think I have introduced too many abstracts into the report. The returns are so full of items and explanatory notes that I found it difficult to describe matters except through such abstracts, and I was anxious to show to District Forest-officers (with view to facilitating future reports) in what form the informations for their several districts would be useful.

6. But for the orders which, I am told, exist, forbidding districtwar abstracts, I should have given the figures for each district in all cases, for it is very important that District Forest-officers should know how this office has dealt with the figures pertaining to each of their districts, and it will be very useful for the Conservator, when on inspection tours, to have such district abstracts at hand to refer to.

7. If District Forest-officers would give talukwar or range abstracts, the Conservators totals for each division, and the Board totals for each circle, it would simplify comparisons and conclusions.

ENCLOSURE.—Administration Report for 1887-88.

Read—the following letter from A. W. PEET, Esq., Acting Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 20th October 1888, No. 1611 :—

Referring to the Board's Proceedings of the 8th January 1887, No. 9, I have the honor to forward, as an accompaniment to the Annual Report for 1887-88, a map of the Presidency (scale 1 inch — 16 miles) showing—

(1) Reserved forests under section 16.
(2) Proposed reserved forests under section 4.
(3) Reserved lands under section 26.

ENCLOSURE.—Map showing reserved forests, proposed reserved forests, and reserved lands.

Resolution—dated 30th November 1888, Forest No. 625.

The Board submit to Government the forest report for 1887-88.

2. The staff of the department stood at the following strength, during the year, showing a slight increase in foresters and forest guards on the scale of the previous year :—

(*a*) Controlling—			
Conservators	Northern Circle	1	2
	Southern do.	1	
Deputy Conservators	Northern do.	4	11
	Southern do.	7	
Assistant do.	Northern do.	7	13
	Southern do.	6	
(*b*) Executive—			
Sub-Assistant Conservators	Northern do.	6	12
	Southern do.	6	
Rangers	Northern do.	21	51
	Southern do.	30	
Foresters	Northern do.	50	123
	Southern do.	73	
Forest guards	Northern do.	348	707
	Southern do.	359	

The Conservators were Mr. Peet in the Northern Circle acting for Mr. Gamble on leave, and Colonel Campbell Walker and for three months Mr. Cherry, in the Southern Circle.

The average areas of charges in the two circles were as under :—

	Southern Circle.		Northern Circle.	
	Total area.	Reserve area.	Total area.	Reserve area.
	SQ. MLS.	SQ. MLS.	SQ MLS.	SQ. MLS.
Conservator	62,980	7,555	78,700	7,180
District Forest-officer	4,845	581	7,870	718
Range officer	913	109	1,140	104
Forest guard	175	21	236	20

3. The gross receipts of the year amounted to Rs. 13,74,920 and the charges to Rs. 11,18,212, leaving a *plus* balance of Rs. 2,56,708.

4. The area under the control of the department was increased during the year by 2,338 square miles, (in addition to the 2,492 square miles, by which the Northern Circle figures of last year have been raised, owing, it is stated, to rectification of areas and the inclusion among "reserved lands" of lands notified for settlement under section 4.) A very large area of waste land has thus been added, and the total area now under control amounts to 17,000 square miles. The advisability of still further adding to it from districts, in which the percentage of forest reserve is small, is now under consideration, and with it the connected question of village forests and the organizing of a complete forest system for each district will be disposed of.

The subjoined table shows the changes that occurred in the several classes of forests :—

	Area on 31st March 1887.			Added during the year 1887-88.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total
1	2	3	4	5	6	7
	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.
A. Reserved forests under Act ..	474 +1	1,838	2,313	150½	564	714½
B. Forests reserved under previous rules	786	280	1,066	..	..	..
C. Leased forests	198½	..	198½	..	..	..
D. Reserved lands	3,838 +2,492	3,655	9,985	227	2,088	2,315
E. Other forests	..	1,099	1,099		166	166
Total ..	7,789½	6,872	14,661½	377½	2,818	3,195½

	Excluded during 1887-88.			Area on 31st March 1888.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
	8	9	10	11	12	13
	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.
A. Reserved forests under Act ..	..	..	..	625½	2,402	3,027½
B. Forests reserved under previous rules	16½	36	52½	769½	244	1,013½
C. Leased forests	..	..	..	198½	..	198½
D. Reserved lands	199½	590½	790	6,357½	5,152½	11,510
E. Other forests	..	15	15	..	1,250	1,250
Total ..	216	641½	857½	7,951	9,048½	16,999½

The whole of the 198½ square miles shown under "leased forests" belongs to the Northern Circle; the 46 square miles in the Southern Circle are shown, 29 square miles under "reserved forests" and 17 square miles under "reserved lands."

Form 59 B of the Northern Circle shows 17½ square miles as having been transferred to 59 A (reserved forests). On comparing the two forms, however, it is observed that only 16½ square miles have been so transferred, this area too being identical with part of the extent transferred from form 59 C (reserved lands). From this it is evident that the two forms are not exclusive of each other as they ought to be. About half a square mile (342 acres), has been shown in 59 A as constituting the Moyar reserved forest in the Nílgiris: but the area does not appear to have been transferred from either 59 B or 59 C.

150½ square miles of reserved lands in the Northern Circle and 564 in the Southern were notified under section 16 as against 328 and 313 in 1886-87.

At paragraph 11 of his report, the Northern Circle Conservator says that 166 square miles had to be *deducted* from the figures given last year under reserved lands in Ganjam. No such figures were, however, given last year, and instead of there being a *deduction* of 166 square miles there has been an *addition* of 554 square miles.

The following table compares the areas under each class of forest at the close of the year :—

	Reserved forests.		Reserved lands.		Leased and other forests.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.
Northern Circle ..	474 + 1	625½	3,838 + 2,492	6,357½	984½	968
Southern do. ..	1,838	2,402	3,655	5,152½	1,379	1,494
Total ..	2,313	3,027½	9,985	11,510	2,363½	2,462

4. (*a*) *Settlement.*—The subjoined abstract shows the progress made in this direction:—

—	Unsettled.		Settled.	Balance
	Balance on 31st March 1887.	Added during 1887-88.	During 1887-88.	To be settled.
	sq. mls.	sq. mls.	sq. mls.	sq. mls.
Southern Circle	1,725	1,141	564	2,302
Northern do.	6,114¾	227	199½	6,142¼
Total ..	7,839¾	1,368	763½	8,444¼

Of the 2,302 square miles shown as balance in the Southern Circle, 794 have been settled and reported on but not declared; and 684 settled but not reported on. Similar information is not given for the Northern Circle, but the Conservator states that over a hundred blocks had been finally settled and were awaiting notification under section 16.

The backwardness of settlement is therefore more apparent than real and the current year should see a large increase to the settled area, a great deal due to work which was done in the year under report. Settlement work is almost complete in the Nílgiris and is making good progress in Salem, Cuddapah and Nellore: large areas in Kurnool and Godávari are virtually completed. The disposal of the numerous claims to trees and lands, included in the Sríharikót reserve, has caused much delay, as have also the shrotriem and zemin claims in the same district: progress in Bellary and Anantapur, mainly owing to the two districts being placed under one District Forest-officer, who had not time to attend to settlement, was slow.

The greater part of the area is being settled by the four Special Forest Settlement-officers appointed to the work.

District details of the work done during the year will be found in the subjoined table:—

Southern Circle.	Area already settled.	Balance at the close of the year 1886-87.	Notified under section 4 in 1887-88.	Notified under section 16 in 1887-88.	Balance to be settled.	Northern Circle.	Area already settled.	Balance at the close of the year 1886-87.	Notified under section 4 in 1887-88.	Notified under section 16 in 1887-88.	Balance to be settled.
Chingleput	63	35	15	24	26	Ganjam	..	540½	..	8½	532
North Arcot	195	174	314	..	488	Vizagapatam	..	..	8	..	8
South Arcot	3	217	14	59	172	Godávari	..	646½	65½	+ 4	708
Salem	172	525	111	388	248	Kistna	..	691½	15½	13 + 8	686
Trichinopoly	31	148	..	13	135	Nellore	1½	511	6½	37	480½
Tanjore	..	7	12	..	19	Cuddapah	272	1,573	..	+37 78	1,458
Coimbatore (North) ..	99	..	470	..	470	Kurnool	..	1,677	41½	..	1,718½
Coimbatore (South) ..	566	..	..	..	..	Bellary	..	198¾	3	..	201¼
Madura	287	95	108	16	187	Anantapur	13½	156½	87	..	243½
Tinnevelly	287	252	50	..	302	Nílgiris	188	120	..	14	106
Malabar (North) ..	118	143	..	..	143						
Malabar (South) ..	16	24	19	24	19						
South Canara	1	105	28	40	93						
Total ..	1,838	1,725	1,141	564	2,302	Total ..	475	6,114¾	227	150½ +49	6,142¼

5. *Demarcation.*—In the Southern Circle 1,701 miles were demarcated at a cost of Rs. 11,613, the average per mile being Rs. 6-13-2 against Rs. 7-11-2 last year; in the Northern Circle 1,645 miles were done at a cost of Rs. 27,225, the average per mile being Rs. 16-8-9. The style of demarcation varies from an actual wall to simple posts, but the usual form appears to be that of cleared lines with cairns at the angles. In the Southern Circle the planting of palmyras and cuttings of banyans and other trees along the boundary line, is being tried and, as a means of showing out the boundary, should be very effective: with the style the cost, too, varies; but except in

Cuddapah and Anantapur, where the excess is reported to be due in the one case to fraud and in the other to mismanagement, it does not appear to be in any case excessive. In the Northern Circle, the work paid for was more than double that paid for in the Southern Circle; Ganjam Rs. 6,535, 138 miles; Cuddapah Rs. 5,650, 177 miles; Kistna Rs. 4,827, 206 miles; Nellore, Rs. 3,798, 429 miles, coming first in the former and Salem in the latter. The possibility of a uniform system of demarcation is being considered, but meanwhile, both Conservators should draw as distinct a division as possible between the rough and the completed demarcation and between the creation of new lines and the upkeep of old ones.

The Conservator, Southern Circle, has made an effort to estimate the work remaining to be done, but his data are too rough for the estimate to be of any use.

6. *Survey.*—Only one block, a fire-protected one, was surveyed in the Northern Circle. In the Southern Circle some departmental work was done, chiefly in the direction of outline surveys of reserved blocks; but though useful as preliminary work, it is not relied on as being very accurate; some 117 square miles are estimated to have been surveyed in this way, at a cost of Rs. 5,864 or a little over Rs. 50 a square mile.

The following work was also done by the Survey of India Party, viz.:—

Madura. { Topography of 245 square miles on the 1-inch scale.
Do. of 8 square miles on the 4-inch scale.

Tinnevelly.—Triangulation in advance of 1,000 square miles;
and a bill for Rs. 11,000 was sent in for it. Almost the whole of the topography, however, is on too small a scale, to be of use in carrying out working-plans and will have to be repeated on the 4-inch scale. This will be done by the same party, to whom, it was decided after considerable discussion throughout the year, to entrust the whole of the forest survey work of the Presidency for the future.

A forest atlas of the Presidency on a small scale, showing reserved forests, proposed reserved forests and reserved lands, was prepared during the year and supplied to Government, to Collectors and to Conservators.

7. *Working-plans.*—Settlement is not yet sufficiently advanced for much to be accomplished in the way of working-plans; a commencement, however, of getting things into order has been made in some districts; in the Northern Circle, the Nílgiri plantations, the Sandúr leased forest and the Balapalle forest continued to be worked on the preliminary plans already drawn up; a cyclone blew down so many trees as to alter the working of the plan drawn up for the Sríharikót jungles, and the plan suggested for some of the Kistna blocks will have to be altered, now that it is probable that the railway will be worked with Singareni coal, instead of with fuel; the rough plan drawn up for Ganjam was not acted upon during the year and a fresh one is being drawn up, the chief features of which are rest, either complete or partial, for reserves overworked under the permit system, and selection fellings by blocks in the remainder. In the Southern Circle, existing plans were worked upon in North Arcot (996 acres), Salem, Trichinopoly and South Coimbatore; new plans were submitted to Government for parts of the Bolampatti range; a plan was matured for an area of 21 square miles in Trichinopoly, and other plans are under discussion. In future reports, Conservators are requested to show, in statement form, the area under working-plans: this is the real test of forest organization, but it cannot be gathered from the present reports.

8. *Fire-protection.*—The subjoined table shows the area attempted and the area burnt in each circle, as also the cost incurred:—

Northern Circle.

Districts.	Area attempted.	Burnt.	Expenditure.	Cost up to end of year.	Since when protected.
	SQ. MLS.	SQ. MLS.	RS.	RS.	
Ganjam	70¾	1¼	1,622	2,682	1885
Vizagapatam	..	..	..	..	..
Godavari	115	43¼	98	98	1887 & 1888.
Kistna	36	..	804	3,106	1884 & 1885.
Nellore	117½	7⅛	376	641	1885.
Cuddapah	318	22	4,334	21,739	In different years beginning from 1867.
Kurnool	30	3½	275	2,755	1884 & 1887.
Bellary	274⅓	19½	3,140	10,708	Different years beginning from 1883.
Anantapur	79½	⅛	1,234	5,270	1884, 1885 & 1886.
Nilgiris	279	4¼	2,566	10,699	Different years from 1883.
Total ..	1,320	101	14,449	57,698	

Southern Circle.

Districts.	Area attempted.	Burnt.	Expenditure.	Cost up to end of year.	Since when protected.
	SQ. MLS.	SQ. MLS.	RS.	RS.	
Chingleput	24⅓	ACS. 21	283	2,166	1883, 1884, 1887 and 1888.
North Arcot	488	SQ. MLS. 7½	2,423	13,451	Various years from 1879.
South Arcot	121½	„ 1½	1,232	4,423	Various years from 1877.
Salem	48½	..	2,471	12,637	Various years from 1881.
Trichinopoly	68¾	ACS. 50	676	1,649	Various years from 1885-86 and 1887-88.
Tanjore	..	..	..	..	..
Coimbatore, North	3¾	..	278	977	Various years from 1879.
Coimbatore, South	25¾	..	1,791	5,822	Various years from 1882-83.
Madura	283¾	SQ. MLS. 1	4,600	18,668	Various years from 1882-83.
Tinnevelly	77¼	SQ. MLS. 2¾	3,039	7,771	Various years from 1884-85.
Malabar, North	52½	„ 2¾	1,136	3,283	Various years from 1882-83 and 1887-88.
Malabar, South	43¼	..	1,794	8,561	Various years from 1860-61.
South Canara	13	ACS. 2	988	1,619	Various years from 1882-83.
Total ..	1,250	SQ. MLS. 15⅓ and ACS. 73	20,712	81,027	

ABSTRACT.

Northern Circle	1,320	101	14,449	57,698	
Southern do.	1,250	15⅓	20,712	81,027	
Total ..	2,570	116½	35,161	1,38,725	

From the above it will be seen that the percentage of failures to area attempted is 7·65 for the Northern Circle and 1·14 for the Southern. Out of 1,320 square miles attempted in the former circle, 612 were under special protection and the balance under the ordinary staff. In the Southern Circle, the figures were respectively 1,250, 665 and 585 square miles.

The total cost of operations amounted to Rs. 14,449 for the Northern Circle and Rs. 20,712 for the Southern Circle, giving an average of Rs. 10-9-0 per square mile for the former and Rs. 16-5-0 for the latter circle.

Fire protection is most forward in North Arcot 488, Cuddapah 318, Madura 283, the Nílgiris 279 and Bellary 274 square miles; but in all districts, except Vizagapatam and Tanjore, a beginning has been made, and the percentage of successes to failures was in most cases fair. Forty-five square miles were burnt in Godávari, but early in the season, so that much damage was not done; two considerable fires occurred in Ganjam and fires are reported from North Arcot and Tinnevelly. The protection of areas by the ordinary staff was, if the figures are reliable, most successful, and the Board would like to have been furnished with some idea of the forest growth on these areas. The figures compare with those of last year as follows:—

Circle.	1886-87.			1887-88.		
	Area attempted.	Area protected.	Cost.	Area attempted.	Area protected.	Cost.
	SQ. MLS.	SQ. MLS.	RS.	SQ. MLS.	SQ. MLS.	RS.
Northern	1,081	1,043	16,811	1,320	1,219	14,449
Southern	1,168	1,016	12,133	1,250	1,234	20,712
Total ..	2,249	2,059	28,944	2,570	2,453	35,161

In regard to unprotected areas, the information given is indefinite: in Godávari firing is universal; in Kistna 10 per cent. escapes; in Kurnool 15 per cent; in the Southern Circle all areas not reserved are burnt. Even if accurate, the figures are misleading, for even if an area escapes one year, it is probably burnt the next, all the more destructively. The Board do not believe that any area in the ordinary dry forests escapes for a series of years.

It is observed that the statements made in the body of the Northern Circle report in respect of fire protection do not all agree with the information furnished in the return. Thus, while form 62 shows 200 square miles as having been specially protected and 118 as having been under ordinary protection in Cuddapah, the report gives the figures at 214 and 101, respectively. Again, in Bellary only 103 square miles are said to have been attempted, but the form gives the figure at 274.

As per report.	Specially protected.	Ordinarily protected.
	ACS.	ACS.
* 1886-87 ...	259,567	390,497
1887-88 ...	301,282	351,528
Difference ...	+ 41,715	— 38,969

It may also be remarked that in bringing forward the figures of last year, a great many alterations * have been made, which affect the classified totals. The explanation given is that errors of omission and commission had crept into the last year's return and that they have been corrected now.

	ACS.
Area omitted in 1886-87	2,876
Deduct area given in excess in 1886-87.	130
	2,746

9. *Grazing.*—The receipts under this head amounted to Rs. 59,773 in the Northern and Rs. 46,038 in the Southern Circle.

District details are given below:—

Northern Circle.

	RS.
Ganjam	...
Vizagapatam	...
Godávari	947
Kistna	38,711
Nellore	12,784
Cuddapah	1,227
Kurnool	4,888
Bellary	403
Anantapúr	16
Nílgiris	797
Total ...	59,773

Southern Circle.

	Rs.
Chingleput	1,244
North Arcot	30
South Arcot	2,226
Salem	...
Trichinopoly	5,140
Tanjore	593
Coimbatore (North)	29,049
Coimbatore (South)	5,584
Madura	1,524
Tinnevelly	609
Malabar (North)	...
Malabar (South)	27
South Canara	12
Total....	46,038

As in the last year, the revenue under this item was largest in Kistna. In Nellore, the kanchas (pasture lands) were taken up by the department for the first time and Rs. 12,784 realized. It is expected that the item will show a steady increase in future years. In Kurnool, Mr. Hooper tried the system of grazing permits with marked success. 75,660 head of cattle were grazed and a revenue of Rs. 4,888 made. The rate was only an anna per head, but it is proposed to double it this year. It is satisfactory to note that the people take to the system kindly, but too rapid an increase of fees must not be attempted. In Anantapur, 25,945 head loads of grass were removed, apparently free of payment, from the Muchukota forest. In the Southern Circle, the grazing revenue was largest in North Coimbatore. No fees were levied in North Arcot, Salem, Malabar and South Canara, but it is intended to levy them from next year in the first two districts. As regards the other two, it is doubtful whether in view of the large extent of private forests available for the purpose and of the limited number of local cattle, the State forests will ever be indented on for grazing.

The Conservators' remarks on this subject are interesting and show that the tact and caution exercised by them in the matter are bearing fruit, that grazing is being gradually brought under control and that the fee system is being successfully introduced, without complaint on the part of the ryots: the same tact and caution must continue to be exercised and progress in the direction of the 4 lakhs of revenue, which the Conservator, Southern Circle, looks forward to, must be slow: forest conservancy must not be lost sight of in the desire to make revenue and the exclusion of goats altogether—some 23,000 were among the cattle licensed in Kurnool—and the restriction of other cattle to particular blocks, in rotation, are matters which will give Conservators and Collectors room for the exercise of much discretion.

10. *Police.*—The prosecutions for forest offences instituted during the year and their disposal are exhibited in the subjoined statement:—

Circle.	Pending from 1886-87.	In 1887-88.	Total.	Convictions.		Acquittals.		Compounded.		Total.	
				No.	Persons.	No.	Persons.	No.	Persons.	No.	Persons.
Northern Circle.	103	1,455	1,558	888	2,122	339	1,055	206	655	1,433	3,832
Southern do.	156	1,644	1,800	791	1,646	230	925	581	1,575	1,627	4,305
				withdrawn.		25	159				
						255	1,084				
Total ..	259	3,099	3,358	1,679	3,768	594	2,139	787	2,230	3,060	8,137

Percentage of convictions to total cases.

—	Pending.	Percentage of convictions to total disposed of.	Percentage of compounded cases to total disposed of.
Northern Circle	125	61·9	14·3
Southern do.	173	48·61	35·7

and the following statement compares the results of the year with those of previous years :—

—	Cases.	Convictions.	Acquittals.
1885-86	2,269	1,280	832
1886-87	2,493	1,120	543
1887-88	3,358	1,679	594

Two hundred and six cases were compounded during the year in the Northern Circle, the number of persons implicated being 655, as against 581 and 1,575 in the other circle. The compensation realized in the former circle was Rs. 1,148, which gives an average of Rs. 1-12-0 per person accused and Rs. 5-9-2 per case. The Southern Circle figures were respectively Rs. 3,271, 2-1-3 and 5-10-1. By far the largest number of cases occurred in Salem, 356 ; Trichinopoly, 344 ; then come Kistna, 331 ; Cuddapah, 280 and Vizagapatam, 216. The increase in Salem is said to be due to the increase of watchers ; the majority of these cases were compounded. It will be seen that more use was made of the power to compound in the Northern Circle compared with last year, 206 cases against 111.

The Northern Conservator has entered a compounded case as "acquitted" ; this is not understood.

11. *Roads and Buildings.*—A comparatively small amount was spent in the Northern Circle on roads : of Rs. 21,200 allotted, Rs. 6,879 only were spent, the rest being partly transferred to other heads, but mainly allowed to lapse. Most work was done in Cuddapah, where the work of making roads in the Balapalle and Seshachalam reserves was steadily continued, 10 miles for Rs. 2,520 and the Nilgiris, where steady progress was also made at a cost of Rs. 2,202 ; a certain amount of tracing work was also done in Ganjam and 9 miles of road completed in Godávari. Better work was done in the Southern Circle, where Rs. 14,024 were spent, of which Rs. 4,610 were for repairs and Rs. 9,414 for new works. The chief items were the Kariar Kannai Kottai Odai road and Parapavillai bridge in Tinnevelly, the Madapalli-gulur road in North Malabar and the Dhoni road and Walayar bridge in South Malabar. Materials were also collected for the Amerdi bridge in North Arcot and a number of small but useful works carried out.

In respect of *buildings* good work has been done in both circles : in the Northern Circle, Rs. 14,604 were spent and in the Southern Circle, Rs. 17,307. In Kurnool, the Forest-officer's head-quarter bungalow was completed and in Malabar the District Forest-officer's bungalow at Nilambur was in course of construction : besides these, two range houses were completed and one begun in Cuddapah : five substantial buildings were built in Ganjam : one rest-house was completed and three others begun in Godávari : five rest houses were constructed in North Coimbatore and two in Madura : a ranger's office was built in Tinnevelly and two other buildings begun and one rest house was built in Chingleput and a number of guards' houses and tannah huts were also constructed.

The expenditure under these heads is compared in the subjoined table :—

Circle.	Roads.		Buildings.	
	1886-87.	1887-88.	1886-87.	1887-88.
	Rs.	Rs.	Rs.	Rs.
Southern Circle	9,524	14,024	15,443	17,307
Northern do.	11,219	6,879	14,461	14,604
Total ..	20,743	20,903	29,904	31,911

12. *Natural Reproduction.*—Conservators speak now with the experience of several years, and of a large area of forests, under varying degrees of protection, and they report that, given protection from fire and cattle, the natural reproduction is sufficiently strong to reclothe the ground: the rapidity of growth, of course, depends greatly on soil and rainfall, but even on the dryest and barest hill sides, it seems to be only a matter of time: the essential is complete protection, and the Conservators give numerous specific instances of successful regrowth where this has been obtained. The most valuable trees, sal, teak, Hardwickia, Pterocarpus and satinwood, as also blue-gum and casuarina are reported to be also the most vigorous reproducers, both from coppice and from seed; in regard to the latter it would be interesting to learn how far the time of the fall of the seed affects its struggle for existence. Complaint is made in some cases, that the first growth is a dense scrub of elephant grass, bushes or thorny creepers, and fears are expressed that this may kill out the young seedlings: the experiment requires to be watched; but in the dryer districts, at any rate, some such covering appears necessary to protect the young seedlings from the drought of the hot weather; and though such protection may be unnecessary for the moister forests, it seems probable that the young trees will push through it in time, while the cost of removing it would probably be prohibitive.

13. *Artificial reproduction.*—Artificial reproduction on the contrary was not satisfactory, and though in particular places plantations such as those of casuarina on the coast, or blue gum on the hills, or teak at Nilambúr, may pay, as a general rule they appear to be most unsuccessful, and anything in the shape of broadcast sowing appears to be absolutely useless.

The figures for the year show a slight increase under "plantations" and a slight decrease under "cultural operations." They are as follows:—

	Regular plantations.		Cultural operations.		Remarks.
	1886-87.	1887-88.	1886-87.	1887-88.	
	Rs.	Rs.	Rs.	Rs.	
Northern Circle	9,191	* 14,729	1,662	* 1,394	* As per form 60, but less than form 64 by Rs. 728 incurred on plantations and cultural operations which have proved failures or been abandoned or sold.
Southern do.	29,275	† 24,609	3,634	1,978	† Less than form 64 by Rs. 171 incurred in 1885-86, but adjusted in 1887-88.
Total ..	38,466	39,338	5,296	3,372	

The only noticeable points are the heavy loss of casuarina seedlings in Nellore, over 50,000, and Chingleput, over 13,000, and the extensive planting of palmyras in Tinnevelly, over 100,000, and Cuddapah, 30,000: the planting of teak, mahogany and bamboos was continued at Nilambúr, and seedlings of Hardwicka and Satinwood were planted out at Palapallé. The Cuddapah mahoganies are reported not to be a success.

14. *Topes.*—There were 364 topes in the Northern Circle with an area of 13,715 acres. The cost of maintenance during the year, exclusive of Rs. 163, which should have been shown in the previous year's return, amounted to Rs. 3,348.

In the Southern Circle, there were 1,281 topes, with an area of 18,883 acres: Rs. 3,381 were spent on them. In this circle some of the topes were handed over to Local and Municipal bodies, and some to the Land Revenue Department.

15. The total expenditure on plantations, cultural operations and topes amounted to Rs. 20,213 for the Northern and Rs. 30,139 for the Southern Circle. The following statement compares the year's expenditure on the improvement of forests with those of past years :—

—	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.		Total.
					Northern Circle.	Southern Circle.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Sowing and planting ..	65,326	70,423	63,244	64,721	20,213	30,139	50,352
Fire-protection ..	11,223	18,945	25,467	28,956	14,449	20,712	35,161
Other works	36,793	22,306	25,302	27,979	5,313	26,291	31,604
Total :.	113,342	1,11,674	1,14,013	1,21,656	39,975	77,142	1,17,117

16. *Exotics.*—The results of the experiments with exotics have been given in separate appendices. Germination from the seed of *date* fruits purchased in the bazaar was good and the plants appear to stand transplanting well; in both these respects, they are fully equal to the specially-imported seed and offsets; of the latter, 417 are alive of the 517 received in the Southern Circle in 1886-87, and are said to be looking healthy: the difference in the percentage of casualties even in plantations in the same district, as in Tanjore, seems to show that some of the loss was avoidable: the dates are reported to do better on the sandy soil of the East, than in the wet climate of the West Coast. Nothing is said about fruiting, and the formation of plantations on an extended scale was postponed to the present year. Wherever they have had a good soil and moist climate, *mahoganies* have done well: in Nilambúr, a tree, 14 years old, is 71 feet high and 46 inches in girth, at breast high; in the Kullar range, trees planted in 1885-86 have attained a height of from 10 to 14 feet; in Wynaad, plants planted out in the year, average 3½ feet in height, and in Trichinopoly, plants obtained in 1886, range from 8 to 11½ feet high; in poor and dry soil, the growth is not so good, and in Śrîharikót the plantation is said to be a failure; as with the dates, much of the loss appears to be due to want of either care or experience in transplanting and tending, and is probably avoidable; the plants suffer badly from borers and beetles; in private gardens in Madras, *e.g.*, Mr. H. C. King's, they grow luxuriantly.

The giant *bamboos* in Wynaad made vigorous growth: the various *rubber* plants and the Ipecacuanha there, also did well; the latter was tested by the Government Botanist and found to yield excellently. The commencement of what promises to be a successful experiment was made with Sappan wood in Wynaad, 2,000 seeds being planted out and germinating without a failure: a few *eucalypti* have grown at heights down to 2,500 feet and are said to be doing well; they seeded at Palmanér; 78 *olive* trees, a foot high, raised from seeds sent in 1886-87, are also in the Wynaad nurseries; in the same place, Lancewood seems to have been a failure.

The Conservator of Forests, Northern Circle, should arrange his report by subjects, instead of by districts.

17. *Yield and working.*—The timber returns of the Northern Circle have not been carefully prepared. The several cognate forms do not tally, and even the last year's figures have not been correctly brought forward in some instances. The Conservators, moreover, though, in accordance with the Board's instructions, they have returned the quantities collected and disposed of in tons, instead of in the various measures hitherto used, have used different factors for the conversion. Thus, while 50 cubic feet of timber make a ton in the Northern Circle, 40 are given as its equivalent in the Southern. Again, 75 cubic feet of bamboos are taken as equal to a ton in the one circle, while in the other the measurement is regulated by local circumstances. The Southern Conservator's multiples appear to have been those contained in his

Circular *re* permits, approved in Board's Proceedings, dated 10th March 1885, No. 151, Forests.

Correcting these mistakes the subjoined abstract shows the total yield of the year in the two circles. The figures are not fully available for free grants in the Northern Circle in the report for which money value is given instead of quantity:—

	Timber.			Firewood.			Bamboos.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
1	2	3	4	5	6	7	8	9	10
By Departmental agency ...	3,794	3,432	7,226	16,493	9,422	25,915	1,711	238	1,949
,, consumers	27,260	27,375	54,635	1,06,349	1,49,773	2,56,082	36,230	27,206	63,436
,, confiscations, &c. ...	3,550	336	3,886	150	243	393	84	28	112
,, free grants	...	1,259	1,259	...	113	113	...	569	569
Total ...	34,604	32,402	67,006	1,22,992	1,59,511	2,82,503	38,025	28,041	66,066

	Sandalwood.			Minor produce.			Total.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
	11	12	13	14	15	16	17	18	19
By Departmental agency ...	19	27	46	50	422	472	22,067	13,541	35,608
,, consumers	...	...	...	13,481	25,880	39,361	1,83,320	2,30,194	4,13,514
,, confiscations, &c. ...	...	...	...	...	65	65	3,784	672	4,456
,, free grants	...	...	...	...	110	110	...	2,051	2,051
Total ...	19	27	46	13,531	26,477	40,008	2,09,171	24,658	4,55,629

Note.—The above statemont does not include grazing and fodder grass for which details of *quantity* removed are not available.

The free grants are still large in Vizagapatam, the quantities being 415 tons of timber, 553 of firewood and 1,192 of minor produce. The only other district requiring notice in the Northern Circle is Ganjam, where some 1,330 trees were given away for rebuilding houses destroyed by fire. In the Southern Circle, the grants were largest in South Canara (911 tons of timber, value Rs. 3,300) and Salem (518 tons of bamboos, value Rs. 1,460).

18. *Departmental operations.*—The "selection fellings" of the year show a decrease in both circles. The trees felled were:—

	Northern Circle.	Southern Circle.
Teak	222	488
Sal	1,220	...
Eucalyptus	13,857	...
Vengai	...	386
Rosewood	...	168
Miscellaneous	1,519	3,375
Total ...	16,818	4,417

The figures last year were 19,657 and 8,157, respectively. In the former circle, unsatisfactory work was done in Ganjam, where much worthless timber was carted into the depôts,—the question raised by the Conservator of writing off a quantity of

this has been disposed of separately (Board's Proceedings, dated 10th September 1888, Forest No. 481),—and in the Nílgiris, where fellings were slack and made at haphazard: in Sríharikót less fuel was cut, because the Madras market was still glutted with storm wood. The short felling in the Southern Circle occurred in North Malabar where the demand at the usual prices had fallen while there was a large stock on hand.

In the Northern Conservator's report (paragraph 30), it is stated that most of the bamboos (included by him in "selection fellings," but excluded by the Board) were felled in Cuddapah and Bellary; but form 68 does not show any bamboos as having been cut in Bellary. The correct district is Ganjam. This mistake has been followed by the entire omission of the bamboos in form 69.

The timber and other produce collected by the department during the year are compared below:—

	Northern Circle.		Southern Circle.		Total.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Timber	1,051	3,794	5,997	3,432	7,048	7,226
Firewood	24,042	16,493	12,156	9,422	36,198	25,915
Bamboos	450	1,711	200	238	650	1,949
Sandalwood	22	19	11	27	33	46
Minor produce	160	50	382	422	542	472

The total departmental sales of the year from both depôts and forests were as follows:—

	Quantity.			Value.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
1	2	3.	4	5	6	7
	TONS.	TONS.	TONS.	RS.	RS.	RS.
Timber	2,566	3,992	6,558	47,280	1,08,660	1,55,940
Firewood	10,216	9,758	19,974	54,883	40,729	95,612
Bamboos	1,491½	316	1,807	2,406	852	3,258
Sandalwood	17¼	3	20	5,804	690	6,494
Minor produce	33	348	381	4,920	36,438	41,358

	Rate per ton for 1887-88.			Rate per ton for 1886-87.		
	In Northern Circle.	In Southern Circle.	Average.	In Northern Circle.	In Southern Circle.	Average.
	8	9	10	11	12	13
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Timber	18 7 0	27 3 6	22 13 3	17 6 3	20 15 7	19 2 11
Firewood	5 5 11	4 2 9	4 12 4	5 0 1	2 8 7	3 12 4
Bamboos	1 9 9	2 11 1	2 2 5	2 0 0	..	..
Sandalwood	341 6 7	230 0 0	285 11 3	409 1 6	361 3 6	385 2 6
Minor produce	149 1 6	104 11 3	126 14 5	51 10 0	73 7 0	62 8 6

Out of these the following quantities were received into and sold from depôts:—

	Timber.		Firewood.		Bamboos.		Sandalwood.		Minor produce.	
	Received.	Sold.	Received.	Sold.	Received.	Sold.	Received.	Sold.	Received.	Sold.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Northern Circle	2,839	2,456	4,771	6,375	1½	1½	..	..	76¼	42¼
Southern do.	1,787	1,841	2,574	2,633	148	299	27	3	99	100
Total ..	4,626	4,297	7,345	9,008	149½	300½	27	3	175¼	142¼

The stock on hand at sale depôts at the close of the year amounted to—

—	Timber.	Firewood.	Bamboos.	Sandal-wood.	Minor produce.
Northern Circle.. ..	583	719	1½	..	104½
Southern do.	1,5-7	429	5	36	..
Total ..	2,110	1,148	6½	36	104½

the total value being, respectively, Rs. 24,351 and Rs. 53,780, against Rs. 25,091 and Rs. 64,927 last year.

19. *Removals by purchasers themselves.*—By far the largest proportion of the forest revenue comes in under this head; the amounts realized amounting to Rs. 4,43,904 for the Northern Circle and Rs. 6,03,580 for the Southern, against Rs. 4,09,078 and Rs. 5,40,115 last year. In the Northern Circle the receipts were largest in Cuddapah, Kurnool and Godávari. In the last-mentioned district, there was an increase of about Rs. 20,000 over the revenue of last year, due, the Conservator states, to merchants getting over their objection to sale by the cubic foot. In Kurnool, there was a decrease, owing to the introduction of the system of issuing permits for individual trees when standing instead of for the cart-loads when cut. In the Southern Circle the receipts rose by about Rs. 63,465 and the quantity removed was some 13,000 tons more than last year. Madura, Trichinopoly, Salem and North Arcot were the largest contributors.

20. *Financial.*—The results of the year's working are summed up in the following abstract:—

—	Revenue.	Expenditure,			Balance.
		A. Conservancy and Works.	B. Establish-ments.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	5,64,723	2,18,009	2,35,785	4,53,794	1,10,929
Southern do.	8,10,197	3,35,437	3,28,981	6,64,418	1,45,779
Total ..	13,74,920	5,53,446	5,64,766	11,18,212	2,56,708

It will thus be seen that there was a balance of Rs. 1,10,929 in favor of the Northern Circle and of Rs. 1,45,779 in favor of the Southern, making a net surplus of a little over the 2½ lakhs required from the department.

This is of course exclusive of capital invested in live stock, tools and plant, acquisition of lands, &c.

The following statement shows the receipts and charges for the six years during which the new system, inaugurated by Dr. Brandis, has been in force, and seeing that Dr. Brandis' forecast was for simple equilibrium only, it may be considered very creditable to the department:—

—	Receipts.	Charges.	Surplus.
	Rs.	Rs.	Rs.
1882-83	9,03,914	6,36,558	2,67,356
1883-84	9,58,991	7,80,916	1,78,075
1884-85	11,62,689	8,84,421	2,78,268
1885-86	11,98,600	9,36,431	2,62,169
1886-87	12,46,783	11,55,687	91,096
1887-88	13,74,920	11,18,212	2,56,708

The following statement shows the actuals compared with the estimates:—

Receipts.

—	Northern Circle.			Southern Circle.		
	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government agency—						
(*a*) Timber	96,660	37,133	— 59,527	1,86,958	1,10,528	— 76,430
(*b*) Firewood and charcoal .	72,080	57,517	— 14,563	43,850	41,668	— 2,182
(*c*) Bamboos	3,200	2,365	— 835	1,860	805	— 1,055
(*d*) Sandalwood	10,000	5,804	— 4,196	4,200	690	— 3,510
(*e*) Grass and other minor produce	9,890	4,920	— 4,970	31,625	36,439	4,814
II. Timber and other produce removed from the forests by consumers or purchasers—						
(*a*) Timber	1,10,000	1,19,871	9,871	89,300	98,883	9,583
(*b*) Firewood and charcoal ..	1,14,900	1,01,263	— 13,637	1,67,038	1,58,618	— 8,420
(*c*) Bamboos	42,700	44,370	1,670	76,025	76,254	229
(*d*) Grazing and fodder grass.	58,200	59,773	1,573	31,875	46,038	14,163
(*e*) Other minor produce ..	94,750	1,18,627	23,877	1,94,341	2,23,787	29,446
III. Confiscated, drift and waifwood.	10,230	9,328	— 902	2,916	3,054	138
IV. Revenue from forests not managed by Government ..	..	14	14	..	..	..
V. Miscellaneous—						
(*a*) Fines and forfeitures ..	310	334	24	1,400	1,573	173
(*b*) Refunds	570	448	— 122	550	3,402	2,852
(*c*) Other sources	1,510	2,956	1,446	4,862	8,458	3,596
Total ..	6,25,000	5,64,723	— 60,277	8,36,800	8,10,197	— 26,603

Charges.

—	Northern Circle.			Southern Circle.		
	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government agency—						
(*a*) Timber	36,410	24,246	— 12,164	62,847	45,243	— 17,604
(*b*) Firewood and charcoal ..	30,350	39,565	9,215	16,405	16,759	354
(*c*) Bamboos	1,450	1,218	— 232	790	216	— 574
(*d*) Sandalwood	3,600	3,067	— 533	1,340	1,193	— 147
(*e*) Grass and other minor produce	7,250	3,056	— 4,194	20,110	28,296	8,186
II. Timber and other produce removed from the forests by consumers or purchasers ..	26,810	24,162	— 2,648	55,729	44,483	— 11,246
III. Confiscated, drift and waifwood	1,570	1,800	230	965	200	— 765
IV. Revenue from forests not managed by Government ..	..	24	24	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	13,500	13,500	..	4,010	1,943	— 2,067
VI. Live and dead stock—						
(*a*) Purchase of cattle ..	10,000	..	— 10,000	1,170	4,122	2,952
(*b*) Feed and keep of cattle ..	2,300	1,336	— 964	8,408	6,583	— 1,825
(*c*) Stores, tools and plant ..	9,300	3,627	— 5,673	6,560	5,678	— 882
VII. Communications and buildings—						
(*a*) Roads and bridges ..	21,200	6,879	— 14,321	17,025	14,024	— 3,001
(*b*) Buildings	31,900	14,604	— 17,296	26,000	17,307	— 8,693
(*c*) Other works	800	883	83	1,100	1,157	57
VIII. Demarcation, improvement and extension of forests—						
(*a*) Demarcation	18,600	27,225	8,625	15,628	11,613	— 4,015
(*b*) Compensation for land and rights	12,400	8,650	— 3,750	6,747	45,723	38,976
(*c*) Surveys and working-plans	3,450	1,385	— 2,065	7,669	5,864	— 1,805
(*d*) Plantations	20,300	20,213	— 87	36,763	30,139	— 6,624
(*e*) Protection from fire ..	15,600	14,449	— 1,151	24,820	20,712	— 4,108
(*f*) Other works	6,200	5,313	— 887	31,436	26,291	— 5,145

Charges—cont.

	Northern Circle.			Southern Circle.		
	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IX. Miscellaneous—						
(*a*) Refunds	480	1,043	563	965	1,643	678
(*b*) Law charges	440	1,070	630	1,550	2,353	803
(*c*) Other do.	2,090	694	— 1,396	3,263	3,895	632
Total ..	2,76,000	2,18,009	— 57,991	3,51,300	3,35,437	— 15,863
I. Salaries—						
(*a*) Conservators	12,400	12,500	100	17,450	20,401	2,951
(*b*) Superior officers	76,000	75,389	— 611	98,200	1,00,209	2,009
(*c*) Subordinate forest and depôt establishments ..	70,000	64,250	— 5,750	94,500	88,964	— 5,536
(*d*) Office establishments ..	30,000	28,870	— 1,130	44,700	43,580	— 1,120
(*e*) Deputation and special allowance	..	..	..	902	54	— 848
II. Travelling allowances—						
(*a*) Conservators	4,000	3,306	— 694	3,200	3,388	188
(*b*) Superior officers	20,000	18,287	— 1,713	23,000	22,662	— 338
(*c*) Subordinate forest and depôt establishments ..	19,000	17,400	— 1,600	29,000	26,952	— 2,048
(*d*) Office establishments ..	4,520	4,781	261	7,200	6,233	— 967
III. Contingencies—						
(*a*) Stationery	190	67	— 123	266	63	— 203
(*b*) Carriage of tents and records	1,660	1,475	— 185	2,903	2,052	— 851
(*c*) Rents, rates and taxes ..	875	897	22	1,349	1,418	69
(*d*) Pay of police guards ..	..	..	..	..	..	..
(*e*) Official postage	2,375	3,073	698	5,720	5,449	— 271
(*f*) Sundries	4,980	5,490	510	10,110	7,556	— 2,554
Total ..	2,46,000	2,35,785	— 10,215	3,38,500	3,28,981	— 9,519
Total of A, Conservancy and works ..	2,76,000	2,18,009	— 57,991	3,51,300	3,35,437	— 15,863
Grand Total of all expenditure ..	5,22,000	4,53,794	— 68,206	6,89,800	6,64,418	— 25,382

It will be seen that the revenue did not come up to the revised estimates of the year in either circle. The difference was larger in the Northern Circle than in the Southern, which fell off only by Rs. 26,600. The chief deficits occurred in Ganjam, Nellore, Kurnool and Nílgiris. In the first-named district the season for work was lost by the absence of a District Forest-officer during part of the time. Nellore firewood is still unable to find a market owing to the large stock of stormwood with which the local depôts are glutted. The non-realization of sums due from the Bellary-Kistna Railway is said to account for the short receipt in Kurnool. In the Nílgiris the budget was exaggerated.

The difference in expenditure was also great in the Northern Circle, and was mainly due to non-utilization of allotments. In Ganjam it was under Timber and Roads and has been already explained; in Godávari it was due to the non-purchase of elephants; in Nellore it was due to delay in indenting for a tramway and in settling compensation for claims to trees in the Śríharikota reserves; in Kurnool it was under Roads and Buildings, and included non-payment for the head-quarter's bungalow; in Nílgiris it was due to slack fellings of timber and abandonment of the proposed site for a bungalow at Mudumalai as being unhealthy.

In the Southern Circle, the difference was not large and requires no special notice. There was a falling off under I (*a*) Rs. 17,604, II Rs. 11,246 and VII (*b*) Rs. 8,693, but this was more than compensated by the increase under I (*e*) Rs. 8,186 and VIII (*b*) Rs. 38,976. During the year the Amarampalem forest estate was purchased at a court sale for Rs. 42,000 odd. The absence of officers on leave caused savings under B, in both circles.

Compared with last year, the expenditure under A and B was as follows :—

	Northern Circle.			Southern Circle.		
	1886-87.	1887-88.	Difference.	1886-87.	1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A	2,20,443	2,18,009	— 2,434	3,80,192	3,35,437	— 44,755
B	2,14,523	2,35,785	+ 21,262	3,40,529	3,28,981	— 11,548
Total ..	4,34,966	4,53,794	+ 18,828	7,20,721	6,64,418	— 56,303

The following statement shows the ledger account of each district :—

Districts.	Receipts.	Charges.	Surplus.	Districts.	Receipts.	Charges.	Surplus.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Cuddapah	1,45,202	75,070	70,132	Tinnevelly	56,794	45,996	10,798
Salem	1,26,409	60,413	65,996	Anantapur	19,655	14,030	5,625
North Arcot	1,05,904	56,546	49,358	Tanjore	9,327	6,931	2,396
Coimbatore, North ..	83,541	34,545	48,996	Chingleput .. .	20,153	18,003	2,150
Godávari	70,323	28,276	42,047	South Canara	57,194	56,084	1,110
South Arcot	91,212	50,237	40,975	Malabar, North	28,160	28,980	— 820
Kistna	77,665	36,966	40,699	Bellary	28,860	30,841	— 1,981
Kurnool	78,157	40,003	38,154	Vizagapatam	5,389	7,687	— 2,298
Nellore	80,290	58,957	21,333	Ganjam	20,079	40,115	— 20,036
Madura	58,609	38,227	20,382	Nilgiris	39,076	63,760	— 24,684
Coimbatore, South ..	72,284	58,964	13,320	Malabar, South	50,082	92,098	— 42,016
Trichinopoly	50,387	37,637	12,750				

21. *General.*—Excluding the unsatisfactory work in Ganjam and Nilgiris, the Board think that the year's working may be considered good. Steady progress is being made in reservation and settlement, rough working-plans are taking the place of the wasteful permit system, fire-protection is becoming something more than a mere name and forests are being opened out with roads and buildings. Grazing is also being brought under control and made to pay. Colonel C. Walker visited five districts and Mr. Cherry three in the Southern Circle, and Mr. Peet visited nine districts in the Northern Circle. District Forest-officers also travelled well ; Messrs. Hooper, Homfray, Somers-Smith and Somasundra Mudaliar heading the list for time spent in camp. As usual, the want of superior officers was much felt, Vizagapatam and Anantapur having no proper District Forest-officers at all, and Ganjam being placed for six months under a Sub-Assistant ; the lower grades are, however, being gradually strengthened by the appointment of men trained at the Dehra Dun School.

The Board regret the delay in the submission of this report. The Southern Circle Conservator's report was only received on 1st October last and his appendix on exotics not till 30th idem. In addition to this, the mistakes in the Northern Circle report have been most numerous and the necessary correction and ascertainment of correct figures in the Board's office have necessarily taken much time.

(True Copies and Extract.)

(Signed) H. A. SIM,
Acting Secretary.

To the Secretary to Government, Revenue Department,
with two reports, and a map (to be returned).

Copy to the Conservator of Forests, Southern Circle.
„ to the Conservator of Forests, Northern Circle.
„ to all Collectors.
„ to the Examiner of Forest Accounts.

Order—dated 5th March 1889, No. 153, Revenue.

Forest, No. 16.

With their Proceedings read above, the Board of Revenue submit the annual reports of the Conservators of Forests on the administration of the Forest Department during the year 1887-88.

2. These reports, together with the Board's review of them, should reach the Government on or before the 1st September, but they have never been submitted till some months after that date, and the explanations offered have invariably been unsatisfactory. If the books of the District and Central offices are kept with care and the entries regularly posted up to date, it ought to be quite possible for the District officers to submit full reports and accurate statements by the 15th of May, and the Conservators should then be able to despatch their reports before the 15th of July. The Board will submit a special report on the subject and endeavour to suggest a radical cure for this chronic delay.

The defective nature and the general inaccuracy of the report of the Northern Circle have on previous occasions been noticed by the Board, the Government and the Government of India, and His Excellency the Governor in Council regrets to find that there has been no improvement in this respect. The numerous errors, both in the statements and in the body of the report, can only be due to want of ordinary care, and, although the fault may originally rest with District Forest officers, His Excellency in Council must hold the Conservator mainly responsible for the many defects which detract so largely from the value of his report.

3. *Area of Forests.*—The following statement shows the extent of the forests administered by the department and the changes that have occurred in the area during the year:—

Class of forests.	Area on 31st March 1887		Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1888.	
	As given in the report for 1886-87.	As since corrected.					
Northern Circle.							
	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.	
A. Reserved forests under Act V.	474	475	150	..	+ 150	625	From B and D.
B. Reserved forests under previous rules.	787	786	..	17	— 17	769	17 to A. This is also included in the area transferred from D to A.
C. Leased forests ..	198	199	..	..	..	199	
D. Reserved lands ..	3,837	6,329	235	200	+ 35	6,364	150 to A. Fifty excluded at settlement.
E. Other forests	..	..	..	..	..	..	
F. Unclassed forests and waste lands.	..	..	..	..	..	..	
Total ..	5,296	7,789	385	217	+ 168	7,957	
Southern Circle.							
A. Reserved forests under Act V.	1,838	1,813	560	..	+ 560	2,373	From D.
B. Reserved forests under previous rules.	280	262	..	18	— 18	244	To D.
C. Leased forests ..	49	46	..	..	..	46	
D. Reserved lands ..	3,655	4,454	1,242	560	+ 682	5,136	560 transferred to A, 18 transferred from B, 15 from E, and 1,209 from F.
E. Other forests	1,099	1,099	166	15	+ 151	1,250	166 from F. 15 to D.
F. Unclassed forests and waste lands.	..	..	..	..	..	..	
Total ..	6,921	7,674	1,968	593	+ 1,375	9,049	
Grand Total ..	12,217	15,463	2,353	810	+ 1,543	17,006	

The area given in column 3 differs in some cases very widely from that shown in the preceding column. The most striking variations are under the head of reserved lands, the real area of which was very much understated in the reports for 1886-87, owing, in the Southern Circle, to a very considerable error in estimating the actual extent and in the Northern Circle, to the omission of over 2,000 square miles of forest of this class. The Government are unable to accept with confidence even the revised figures now given, for the area shown, under B in the Northern Circle appears to be included under D also, and the Conservator, Southern Circle, seems himself to have some doubt as to the propriety of his classification in respect of the extent under E. The Board should make further inquiries on these two points and every endeavour should be made to furnish correct figures with the reports for 1888-89. The alterations which may be found necessary should also be fully explained, and the tables appended to the report should be consistent with one another and with the statements made in the text.

The actual addition to the area of reserved forests during the year was 560 square miles in the Southern and 150 square miles in the Northern Circle, or a total of 710 square miles against 685 square miles in 1886-87. The area of all classes of forests under the control of the department on the 31st March 1888 was 17,006 square miles, the real net addition during the year, as distinguished from increase due to mere correction of area, being 1,543 square miles.

4. In his review of the reports for 1886-87, His Excellency the Governor in Council directed that he should be furnished with a detailed report of the forest requirements of each district and of the measures which it was proposed to take to meet them, but up to the present these instructions have not been complied with in a single instance; yet it is clear from the annexed statement that much still remains to be done, and the Government trust that the Board will not suffer any further delay to occur in the disposal of this important matter.

Districts.	Total area excluding feudatory and tributary states.	Area excluding zemindaries and whole inam villages.	Cultivated area.	Remainder.			Forests under the control of the Forest Department.	Percentage of column 8 to column 3.	Percentage of column 8 to column 7.
				Uncultivated and forest.	Area for which returns are not available.	Total of columns 5 and 6.			
1	2	3	4	5	6	7	8	9	10
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjam	8,369	2,273	571	380	1,319	1,699	557	24·5	32·7
Vizagapatam	16,992	1,864	188	107	1,568	1,675	8	·4	·5
Godávari	7,857	3,713	1,451	1,771	791	2,262	776	20·9	34·3
Kistna	8,397	5,481	2,957	2,391	134	2,525	855	15·6	33·8
Nellore	8,765	4,044	1,528	2,516	..	2,516	744	18·4	29·5
Cuddapah	8,722	7,494	1,937	5,557	..	5,557	2,287	30·5	41·1
Anantapur	5,274	4,307	1,724	2,220	362	2,582	261	6·0	10·1
Bellary	5,605	4,158	2,216	1,940	..	1,940	264	6·3	13·6
Kurnool	7,769	5,919	1,788	4,132	..	4,132	1,718	29·0	41·6
Chingleput	2,842	2,051	907	1,106	..	1,106	155	7·5	14·0
North Arcot	7,497	3,768	1,263	2,505	..	2,505	861	22·8	34·3
South Arcot	5,140	4,860	2,152	2,707	..	2,707	1,068	22·0	39·4
Tanjore	3,654	2,204	1,674	810	..	810	28	1·2	3·4
Trichinopoly	4,732	2,532	1,633	899	120	1,019	236	9·3	23·1
Madura	8,658	3,193	1,503	1,260	430	1,690	692	21·6	40·9
Tinnevelly	5,387	3,518	2,242	1,276	..	1,276	607	17·2	47·7
Coimbatore	7,860	7,173	3,683	2,392	1,099	3,491	2,518	35·1	72·1
Nílgiris	957	957	293	664	..	664	487	50·9	73·3
Salem	7,724	5,580	1,959	3,622	..	3,622	1,010	18·1	27·8
South Canara	3,902	3,882	625	3,257	..	3,257	1,020	26·3	31·3
Malabar	5,584	5,565	1,376	4,188	..	4,188	854	15·3	20·4
Total ..	141,687	84,536	33,769	45,400	5,823	51,223	17,006	20·1	33·2

5. *Settlement.*—The area finally settled during the year is, of course, the same as the addition to reserved forests, and has been given above; but this does not adequately represent the settlement work actually done, as final notifications had not been issued at the close of the year for many of the blocks which had then been completely settled. So far as can be gathered from the information furnished by the Conservators

the progress made was good in the Southern but less satisfactory in the Northern Circle. For the latter circle the area which was settled by the end of the year but not notified, is not given, and this makes it difficult to judge of the real work done. It would be convenient if tables similar to those given in paragraphs 7 and 8 of Mr. Cherry's report were in future compiled for both circles. It is observed that in his report for 1886-87 the Conservator, Southern Circle, stated that the settlement of 1,016 square miles had been practically completed by the end of that year, yet the total area finally notified in 1887-88 was only 560 square miles. This, taken in conjunction with the fact that there is still a very large extent which has been settled but for which notifications have not yet been issued, points to great delay in the preparation or transmission of the necessary reports and draft notifications. In order to get some idea of the real position of affairs, the Government desire to be furnished with a statement of all reserves of which the settlement has been completed but for which notifications have not yet been issued. The statement should show the dates of completion of settlement, expiry of appeal time, and receipt of the report and notification by the Collector, the Conservator and the Board.

Neither the Board's review nor the reports give any definite account of the work done by each of the four Special Forest Settlement officers, nor has the statement called for in paragraph 2 of G.O., dated 27th July 1888, No. 516, Revenue, been furnished. His Excellency in Council is thus unable to review the work of these officers, and the question of their retention after the expiry of the present sanction must be disposed of separately. The matter is one of some urgency and the two statements required by the Government should be submitted by the Board with the least possible delay.

6. *Demarcation.*—The following table shows the extent of boundary demarcated and its cost. Neither of the Conservators is able to frame any reliable estimate of the work remaining to be done.

—	Up to 1886-87.			1886-87.			1887-88.			Total.		
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Northern Circle ..	1,029	24,117	19 15 2	1,003	19,202	19 2 3	1,645	27,225	16 8 9	3,677	70,544	19 2 11
Southern Circle ..	3,178	35,247	11 1 5	1,134	8,735	7 11 2	1,701	11,613	6 13 2	6,013	55,595	9 3 11
Total ..	4,207	59,364	14 1 9	2,137	27,937	13 1 2	3,346	38,838	11 9 8	9,690	126,139	13 0 3

His Excellency in Council regards the progress made as extremely satisfactory, the amount of work done being particularly good in Nellore, Godávari and Kistna in the Northern Circle and in North Arcot and Salem in the Southern. Now that the survey of the forests is to be systematically taken in hand, the demarcation must be steadily pushed forward and the Conservators should direct their special attention to the subject. The cost of demarcation per mile was less than in the previous year in both circles, but in the Northern Circle it is still too high and endeavours should be made to reduce it. The Government await the report promised by the Conservator on the mismanagement that has taken place in the construction of walls in Anantapur.

7. *Surveys.*—The Conservator, Northern Circle, states in paragraph 17 of his report that there were no survey operations in his circle during the year, but he mentions in the preceding paragraph that a fire-protected block was surveyed and plotted by Mr. Hearsey. In the Southern Circle 117 square miles were surveyed by the Forest Department, but the result is said to be unsatisfactory and the whole of what has hitherto been done will have to be done over again by the Madras Party of the Survey of India who, under recent arrangements, have undertaken the forest survey

of the Presidency. This party worked in Madura in the year under review and completed the survey of eight square miles on the scale required by the Forest Department. It also surveyed 245 square miles on the one-inch scale which is not large enough for forest purposes. This mistake appears to have arisen from a most regrettable misunderstanding on the part of Colonel Campbell Walker. In order that some progress may be made with survey in the Northern Circle, it has been decided that the Madras Survey Party now working in Bellary and Anantapur should survey the forests of those districts. The Government consider that the admittedly useless departmental surveys should now be discontinued unless arrangements can be made for securing greater accuracy.

8. *Working Plans.*—Much could not be done in the way of preparation of satisfactory working plans as no regular survey of forest areas has been made; and the selection and settlement of reserves take up most of the time of the establishment.

If the proposals for strengthening the superior staff which His Excellency in Council has submitted to the Government of India are sanctioned, it will be possible to form a special Working Plans Party which will follow in the wake of the surveyors and assist the local officers in drawing up schemes for the proper working of the forests.

9. *Fire Protection.*—There was a very satisfactory improvement both in the area over which protection was attempted and in the success obtained, the results in the latter respect being particularly good in the Southern Circle.

Circle.	Area attempted.				Percentage of area attempted in which protection was successful.			
	1884-85.	1885-86.	1886-87.	1887-88.	1884-85.	1885-86.	1886-87.	1887-88.
	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.				
Northern	720	728	1,168	1,320	97	96	87	92
Southern	744	906	1,081	1,250	98	98	96	99
Total ..	1,464	1,634	2,249	2,570	97	97	91	95

The total cost was Rs. 35,161 or an average of Rs. 13·7 per square mile. The Government observe that, in the Bombay Presidency, nearly the whole of the area under the control of the Forest Department is specially protected from fire, and this, too, at the very small cost of two annas per square mile. The Conservators should endeavour to ascertain under what arrangements this singularly satisfactory result is obtained.

10. *Grazing.*—The revenue from grazing fees has risen from Rs. 81,203 to Rs. 1,05,811 or by 30 per cent., and this gratifying increase appears to have been obtained without the infliction of any heavy additional tax. His Excellency in Council notices with approval Mr. Hooper's judicious action in levying at first a fee of only one anna per head per annum, and he commends this course to the favorable attention of all Collectors. The fee may be subsequently increased but this should not be done too repidly and the amount of each increment should be small. Where the area of unreserved land available for pasture is comparatively limited free grazing must be provided for the cattle required for agricultural or domestic purposes, and the Government observe with satisfaction that this point has not been lost sight of by Mr. Cherry. As the policy of charging fees is more generally introduced this matter will become of increasing importance, and great care will be necessary on the part of Collectors and District Forest officers to prevent reasonable discontent being caused in those localities where the pasture lands have all been brought under control although the

free and unrestricted use of them by the villagers' cattle has hitherto been customary. It is clear that the ryots are already beginning to appreciate the advantages to themselves of conservation and control, and if the wise and cautious policy of the past few years is steadily maintained the Government do not doubt that in a comparatively short time cattle-owners will be converted from an attitude of distrust, if not actual hostility, into one of hearty co-operation.

His Excellency in Council regards the results which have been obtained during 1887-88 in dealing with this difficult question as one of the most satisfactory features of the year's working.

11. *Forest Offences.*—The number of forest offences reported in each of the past four years is shown below :—

Circle.	1884-85.	1885-86.	1886-87.	1887-88.
Northern	757	848	994	1,455
Southern	1,007	1,154	1,339	1,644
Total ..	1,764	2,002	2,333	3,099

It will be seen that there was a considerable increase in the year under review but it is only to be expected that with the steady extension of conservation the offences brought to notice should be more numerous. Two-thirds of the offences were under the head of " unauthorized felling or removal of timber or forest produce," but in the Southern Circle the number of cases of grazing without permission was comparatively large. Of the cases, which were taken before the courts, 75 per cent.* resulted in convictions, which is an improvement upon the proportion in the previous year (67 per cent.), and is decidedly satisfactory. The figures for each circle are—

* If the 25 cases which were withdrawn be included, the percentage is 74.

	1886-87.	1887-88.
Northern Circle	65	72
Southern Circle	70	77

The number of cases compounded has increased from 571 to 787. The Government presume that the acquitted case which was shown under the head of " compounded " is one which, when taken before the compounding officer, was found to be false or at least not proven. There must be a number of such cases and it would be interesting if they were shown separately. The officers who are empowered to compound should not presume that the case against every accused person who is willing to compound is necessarily a true one, but he should carefully examine the record and ascertain whether it discloses a *prima facie* case. It is perhaps unnecessary to add that any tendency to send up cases which are obviously so weak as to be quite untenable in a court, should be promptly checked.

12. *Natural Reproduction.*—The fact that if a forest is carefully protected from fire and excessive grazing, reproduction will proceed satisfactorily without artificial planting or sowing, is now so generally established that it is only necessary to draw attention to exceptions to this rule and to endeavour to ascertain the causes of failure. In the majority of cases these causes are to be found in the non-fulfilment of the conditions required for success, viz., the exclusion of fire and the prevention of excessive grazing, but the reports give instances where failure cannot be explained in this way and where other reasons for it must be sought for. Thus, in the Anamalai forests of South Coimbatore the young seedlings have not succeeded in pushing their way through the strong coarse grass which has grown vigorously in the absence of fire and grazing. In the report for 1886-87 it was stated that this difficulty was being overcome, but it now appears that these hopes of success were premature. In Anantapur the dying off in the hot weather of the seedlings which had sprung up in the rainy season was

remarked upon in the review of the reports for 1886-87, and the experiment of closing a few areas against both grazing and the cutting of grass was recommended. This suggestion was of course too late to be acted upon in 1887-88 but Mr. Peet proposes to give effect to it. In meeting difficulties of this kind the experience of the Inspector-General of Forests with the Government of India would be of great value, and His Excellency in Council feels sure that any requests from Conservators for advice and assistance would be cordially and promptly complied with by Mr. Ribbentrop.

Before leaving this subject His Excellency the Governor in Council thinks it advisable to point out that it is not the wish of the Government that attempts should be made to grow high forest on the whole of the reserves and reserved lands. Many of them are primarily needed as pasture grounds, and in the case of such areas grazing requirements must not be sacrificed to the necessities of natural reproduction.

13. *Artificial Reproduction.*—The areas under regular plantations and cultural operations increased during the year by 802 and 488 acres, respectively. The extension was chiefly made in Nellore, North Malabar, Trichinopoly and South Arcot in the case of the former, and in Cuddapah, Nellore, Tinnevelly and North Malabar in that of the latter. The expenditure shows an increase under plantations and a decrease under cultural operations. During the year under review the results of artificial reproduction were discouraging in the Northern Circle and not altogether satisfactory in the Southern Circle. In Nellore the ravages of some insect which has not yet been identified seem to have caused most serious damage to the plantations. The Government have read with much interest Mr. Peet's remarks on the subject of the continuous planting of a single species of tree. The matter will no doubt receive the attention of Mr. Gamble who has now resumed charge of the circle.

—	Area.		Cost.	
	1886-87.	1887-88.	1886-87.	1887-88.
Plantations.			Rs.	Rs.
Northern Circle ..	6,423	7,092	9,191	14,729
Southern Circle ..	11,786	11,919	29,275	24,609
Total ..	18,209	19,011	38,466	39,338
Cultural Operations.				
Northern Circle ..	878	977	1,662	1,394
Southern Circle ..	2,972	3,361	3,634	1,978
Total ..	3,850	4,338	5,296	3,372

14. *Exotics.*—The Board have given an interesting summary of the reports of the Conservators on exotics and His Excellency in Council has little to add to their remarks. The year's operations affirm the conclusion stated by Government in the review of the reports for 1886-87 that the cultivation of the date-palm has in this Presidency passed the experimental stage and may now be conducted on an extensive scale. It is said that the seeds of date fruits bought in the bazaars have been found to give good results, but in October 1888 Mr. Hadfield, the officer who made the experiments with this kind of seed, reported that 50 per cent. of the plants put out had died. It is not impossible that as good seed may be obtained in the West Coast bazaars as that imported by Mr. Duthie from Arabia, but until this is proved by experiment no large area should be planted with it. The Government have already issued orders to this effect. It is noted with satisfaction that the mahogany has, on the whole, thriven well in the Southern Circle.

15. *Communications and Buildings.*—A considerable proportion of the budget allotment under this head has been, as in previous years, left unutilized. In fact, the percentage of unexpended balance was considerably higher than in the preceding year. Employment of the establishment on settlement and demarcation cannot, as was observed by Government in the review of the last report, be accepted as a sufficient explanation of the short expenditure. The working of the Nellore portable tramway and the possibility of introducing this means of carriage more extensively should have been noticed by the Conservators. It is gathered from other papers that the Nellore line, which is $2\frac{3}{4}$ miles in length, has been most successful. The cost of transport has

	Revised estimate.	Actuals.	Percentage of unexpended balance.
	Rs.	Rs.	
1886-87 ...	78,311	51,719	34
1887-88 ...	98,025	54,854	44

thereby been reduced from one rupee to two annas per ton, and the greater facility for working is said to be in itself sufficient to render its use profitable, for the damage which was caused by carts to the stools left for coppice, and the difficulty experienced, when carts were employed, in getting out the necessary quantity of wood during the working season have both disappeared. These results were rightly regarded as so encouraging as to justify the introduction of portable tramways into other districts, and during the current year lines have been laid in South Coimbatore (7 miles) and North Arcot (2 miles), while an additional length of 5½ miles has been purchased for Nellore.

16. *Yield and Working.*—The quantity of every kind of produce has been given in tons, but in G.O., dated 1st August 1887, No. 741, Revenue, it was ordered, in compliance with the wishes of the Government of India, that the outturn of timber and fuel should be stated in cubic feet. There seems, too, to be some little doubt regarding the scale of conversion employed by the Conservator, Northern Circle, for though in one place he gives 50 cubic feet as the equivalent of a ton, yet the entries of eighths of a ton would seem to indicate the use of a different rate. In these circumstances His Excellency in Council considers that it would be unsafe to accept the figures as they stand, and he resolves to request each Conservator to furnish a statement showing for 1886-87 and 1887-88 the yield of timber and fuel in cubic feet, of minor produce in maunds of 25 lb., and of bamboos by number. The various code forms must be very carefully examined and all inconsistencies satisfactorily cleared up. The yield should be shown under the three heads of "Government agency," "Private purchasers" and "Free grants." The statement should be prepared and submitted with as little delay as is possible in order that it may be transmitted to the Government of India in time to be incorporated in the "Review of Forest Administration in British India."

17. *Financial Results.*—The actual receipts and disbursements of the year fell short of the revised estimates as usual, the receipts being less by Rs. 86,880 and the expenditure by Rs. 93,588. Compared with the figures of the previous year, however, the financial results of the working of the department show an improvement, the surplus having increased from Rs. 91,096 to Rs. 2,46,403 :—

	Northern Circle.		Southern Circle.		Total.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts	5,52,248	5,64,723	6,94,535	8,10,197	12,46,783	13,74,920
Charges	4,34,966	4,53,794	7,20,721	6,74,723	11,55,687	11,28,517
Surplus ..	+ 1,17,282	+ 1,10,929	— 26,186	+ 1,35,474	+ 91,096	+ 2,46,403
Percentage ..	+ 27	+ 24	— 3	+ 20	+ 8	+ 22

The charges as given above exceed those given by the Board and Conservators by Rs. 10,305, which is the amount charged for work done by the Survey of India. The steady advance in revenue, which has been continuous for the past five years, was maintained, while the charges showed a slight decrease. The expenditure included Rs. 42,000 for the purchase of a valuable forest in Malabar, at least Rs. 40,000 on account of settlement, about Rs. 53,000 for demarcation and survey, and Rs. 54,000 on communications. These are all items of which the greater part would be debited to capital account if that distinction were made, and when once the forests are settled, demarcated and surveyed and provided with good roads the total expenditure will probably be less than it is now, even if the staff be considerably augmented, while the income may be relied upon to rise much higher as the forests are brought under systematic working. The district which yielded the largest surplus was Cuddapah (Rs. 70,132), Salem being next with Rs. 65,996. The highest rate of profit was

realized in the Godávari (150 per cent.), while in each of the marginally noted districts it was over 100 per cent. In Cuddapah the rate was 93 per cent. As already explained in the review of the budget the deficit of Rs. 42,016 in South Malabar is almost entirely due to the expenditure (Rs. 42,000) on the purchase of the Amarampalan forests. The deficits of Rs. 20,000 in Ganjam and of Rs. 24,000 in Nílgiris are most disappointing and are largely, if not entirely, due to unsatisfactory administration.

	Per cent.
North Coimbatore	140
Kistna	110
Salem	110

18. *General.*—His Excellency the Governor in Council considers that, on the whole, the work done during the year may be regarded as very satisfactory. There was an improvement in the extent added to the area of reserved forests, and if there had not been so much delay in the submission of the settlement records and draft notifications the addition would have been much greater; demarcation made good progress, and though but little was done in the way of surveys and the preparation of working plans this was not the fault of the department; the advance towards the final solution of the difficult grazing question was particularly satisfactory, while the attempts to protect the forests from fire were both more extensive and more successful than in the previous year; there was an increase in the number of forest offences reported, but this is probably due to improved detection; the progress made with the construction of roads and buildings, though somewhat better than in 1886-87, still leaves much to be desired, but the remarks of Government on the results of that year can only begin to bear fruit during 1888-89; the subject of the yield of the forests will be dealt with in a subsequent order on receipt of the special report called for, but it may be gathered that it was generally fair with the exception of the regrettable failures in Ganjam and the Nílgiris; the superior officers appear to have travelled well, especially those mentioned in paragraph 24 of the Board's Proceedings, and the year seems to have been a healthy one on the whole; lastly the financial results of the administration showed a great improvement, the surplus revenue being 170 per cent. in excess of that obtained in 1887-88.

19. The year 1887-88 completes the first *quinquennium* since the reorganization, which was initiated by the visit of Dr. (now Sir Dietrich) Brandis and the passing of the Forest Act in 1882 but did not come fully into operation until 1883-84. During this period of five years the area under the control of the Forest Department increased from 2,794* to 17,006 square miles, of which 2,998 were formally reserved, while over a great portion of the remainder conservation was nearly as strict as in the case of reserved forests. It is evident, too, that this control was something more than nominal, for the revenue derived from forests has risen from Rs. 9,03,914 to Rs. 13,74,920. Sir Dietrich Brandis estimated the receipts at Rs. 9,00,000 per annum for the first five years, and he put the charges at the same figure, but instead of merely paying its way the department has, during the period in question, earned a net income, aggregating Rs. 10,66,316. How far the increased revenue indicates merely better systems of working resulting in greater receipts from purely commercial transactions and how far it consists of what is practically additional taxation, it is not possible to ascertain with any accuracy. Receipts from timber, bamboos and sandalwood might perhaps be classed under the former head and those from firewood and charcoal and grazing and fodder grass under the latter. But there still remains the most important item of minor produce, and this it is impossible to classify in the above manner. There can, however, be but little doubt that a considerable portion of the increased revenue is due to a charge being made for produce which was formerly enjoyed free and it is well to remember this fact in considering proposals for sudden additions

*Includes area under the old jungle conservancy, but not the Nallamalais or the Nílgiri slopes towards Coimbatore.

Timber, Bamboos, &c.

	Rs.
1887-88	4,96,703
1882-83	4,24,699
Increase ...	72,004

Firewood and Charcoal.

	Rs.
1887-88	3,59,066
1882-83	2,13,154
Increase ...	1,45,912

Grazing and Fodder Grass.

		RS.
1887-88	... ...	1,05,811
1882-83	... ...	85,329
	Increase ...	20,482

Other Minor Produce.

		RS.
1887-88	... ...	3,83,773
1882-83	... ...	1,47,432
	Increase ...	2,36,341

to fees or the withdrawal of privileges which have long existed. At the same time His Excellency in Council entertains no doubt that the disposal of the forest produce of the State forms a legitimate source of revenue, and it must be remembered that the increased expenditure which has accompanied the increased revenue *pari passu* has been incurred for improvements to the sources of supply of pasture and of fuel which are not only advantageous but absolutely necessary to the interests of the ryots.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioners of Land Revenue.
„ the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ the Superintendent of Revenue Survey.
„ the Superintendent, Government Central Museum.
„ the Government Botanist.
„ the Accountant-General.

No. 153-A, Revenue.

Copy to the Government of India, Revenue and Agricultural Department.

(Signed) C. A. GALTON,
Secretary to Government.

ANNUAL

ADMINISTRATION REPORTS

OF

THE FOREST DEPARTMENT

(SOUTHERN AND NORTHERN CIRCLES),

MADRAS PRESIDENCY,

FOR THE

OFFICIAL YEAR

1888-89.

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1889.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE SOUTHERN CIRCLE, MADRAS,

FOR THE YEAR 1888-89.

By A. W. PEET, Esq., Acting Conservator of Forests.

CHAPTER I.

Introductory Remarks.

Colonel I. Campbell Walker, Conservator of Forests of the Circle, went on furlough, giving over charge on 19th April 1888 to Mr. J. W. Cherry, who acted as Conservator until he was relieved by Mr. A. W. Peet on 8th March 1889.

Mr. Cherry visited during the year the Chingleput, North Arcot, South Arcot and Coimbatore districts. His inspection notes were sent to Collectors and the Board of Revenue as usual.

Mr. Peet visited Madura, Tinnevelly and South Arcot. He inspected the District Forest offices. There was no field inspection, but several subjects requiring personal discussion received attention.

The inspection of Range offices by District Forest Officers received during the year better attention than in former years.

2. The time spent in camp by the District Forest Officers during the year is reported to have been as follows:—

Abstract A.—Movements of District Officers.

Districts.	Name of officer in charge.	Number of days in charge.	Number of days spent in camp.	Percentage of time spent in camp.	Reasons for absence from charge of permanent officers.
Chingleput	Mr. T. Muhammad Ali, Khan Sahib.	365	152	41·6	
North Arcot	,, T. Sheffield	365	186	50 9	
South Arcot	,, H. L. Wooldridge ..	284	86	30·0	Privilege leave up to 20th May 1888. Died on 27th Feb. 1889.
Do.	,, C. Eber Hardie (Acting) ..	49	20	40·8	
Do.	,, C. P. Howell (Acting) ..	32	15	46·9	
Salem	,, J. W. Cherry	16	..	..	Promoted to act as Conservator.
Do.	,, C. P. Howell (Acting) ..	38	11	29·0	
Do.	,, E. D. M. Hooper	311	179	57·6	
Trichinopoly	,, A. W. C. Stanbrough ..	35	..	..	Furlough, May 1888.
Do.	,, C. Somers Smith	57	..	..	Furlough, July 1888.
Do.	,, C. Eber Hardie (Acting) ..	273	144	52·7	
North Coimbatore	,, W. C. Hayne	365	186	50·9	
South Coimbatore	,, V. S. Gurunada Pillai (Acting.)	67	24	35·8	
Do.	,, H. J. A. Porter	298	187	62·7	Privilege leave.
Madura	,, H. A. Gass	357	238	66·7	Do.
Do.	Treasury Deputy Collector ..	8	..	..	
Tinnevelly	Mr. C. E. Brasier	365	207	56·7	
North Malabar	,, R. W. Morgan	365	221	60·5	
South Malabar	,, G. Hadfield	317	174	54·9	Privilege leave from 12th February 1889.
Do.	,, A. G. Van-Haften (Acting)	48	..	..	
South Canara	,, T. P. Peake	365	183	50·1	
	Total ..	4,380	2,213	50·5	

The average time in camp was a little over half the time in charge.

CHAPTER II.

AREAS AND BOUNDARIES.

3. *Areas.*—The following abstract exhibits the changes which took place during the year in the various classes of State forests :—

ABSTRACT B.—Classes of Forest.

Class of forests.	Area on 31st March 1888.	Added during the year 1888-89.	Excluded during the year 1888-89.	Difference.	Area on 31st March 1889.	Source or cause of increase or decrease.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
A. Reserved forests under Act V.	2,402	408	10	+ 398	2,800	375 square miles from D. Added 33 and excluded 10 square miles owing to rectification of areas.
B. Reserved forests under previous rules.	244	..	50	— 50	194	50 square miles to D.
C. Leased forests	..	..	..	..	..	
D. Reserved lands	5,153	538	393	+ 145	5,298	50 square miles from B; 166 square miles from E. 310 square miles from F; 12 square miles added by rectification of areas. 375 square miles to A; 18 square miles deducted by rectification of areas.
E. Other forests	1,250	368	166	+ 202	1,452	368 square miles from F; 166 square miles to D.
F. Unclassed forests and waste lands.	..	..	..	..	..	
Total ..	9,049	1,314	619	+ 695	9,744	

Leased forests.—Forty-six square miles remain included in other classes as explained in para. 3 of the last annual report.

The large addition to "E. Other forests" is due to areas selected in Salem for notification under section 4 to complete proposals for reservation, having been included in that return.

It has not yet been ascertained *in detail* what extent of "unclassed forests and waste lands" or unreserved lands still remain and what portion of them is covered with forest.

4. The following abstract may, however, serve to indicate in a manner the progress already made in the reservation of forests and what may hereafter be expected :—

ABSTRACT C.—District areas and Forest reserves in square miles.

District.	District surveyed area as per Board's Proceedings, dated 6th Nov. 1888, No. 629 (Settlement, Land Records and Agriculture).	DISTRICT AREA, HOW COMPOSED.				
		Occupied land of all classes.			Unoccupied or lands at the disposal of Government.	
		Cultivated.	Uncultivated.		Forest.	Bare.
			Forest.	Bare.		
1	2	3	4	5	6	7
Chingleput	2,840	1,157	25	553	210	895
North Arcot	7,497	2,435	1,000	1,557	911	1,594
South do.	5,140	1,967	83	383	1,068	1,639
Salem	7,724	2,436	508	1,157	2,226	1,397
Trichinopoly	4,732	2,439	237	1,036	326	694
Tanjore	3,740	2,069	10	851	65	745
North Coimbatore	7,860	4,088	21	260	2,538	953
South do.						
Madura	8,799	4,324	500	2,285	699	991
Tinnevelly	5,391	2,637	131	1,346	607	670
North Malabar	5,588	1,371	5	24	943	3,245
South do.						
South Canara	3,902	587	2	55	1,758	1,500
Total ..	63,213	25,510	2,522	9,507	11,351	14,323

District.	Lands at the disposal of Government how classed.				Total of forest reserves.	Percentage of forest reserves to district area.	Percentage of forest reserves to land at disposal of Government.
	Unreserved lands.	Reserved lands.	Reserved lands under settlement.	Reserved forests.			
	8	9	10	11	12	13	14
Chingleput	952	22	39	92	153	5·39	13·85
North Arcot	1,594	178	364	369	911	12·15	36·37
South do.	2,424	..	189	94	283	5·51	10·45
Salem	2,455	202	368	598	1,168	15·12	32·24
Trichinopoly	784	39	61	136	236	4·99	23·13
Tanjore	785	6	11	8	25	·67	3·09
North Coimbatore	955	1,176	657	119	2,536	32·26	72·65
South do.		18		566			
Madura	1,127	63	173	327	563	6·39	33·31
Tinnevelly	687	1	302	287	590	10·94	46·20
North Malabar	3,580	20	143	118	608	10·88	14·52
South do.		28	260	39			
South Canara	2,233	881	97	47	1,025	26·27	31·46
Total ..	17,576	2,634	2,664	2,800	8,098	12·81	31·54

We have added during the year 398 square miles of reserved forests and 145 square miles of reserved lands, bringing the total reserves up to 8,098 square miles, which is nearly 13 per cent. of the district areas and 32 per cent. of the "lands at the disposal of Government."

Coimbatore exceeds the average considerably; but, as explained in the previous report, all the reserved land area which may remain after selecting compact and suitable blocks to be constituted reserved forests will be unreserved.

Tinnevelly, which comes next, will have no further addition—*vide* G.O., 23rd May 1889, No. 422.

In North Arcot and Madura, there is no likelihood of any further addition at present, though in *Salem*, an increase of about 460 square miles is still expected, which will raise the percentage from 32 to 44. It is however doubtful, as remarked lately by the Board, whether Government will sanction the whole of the proposed extensions.

In South Canara, it has already been reported that the present extent of forest under control is ample for all requirements.

In Trichinopoly, the probable addition may be entered at about 65 square miles, which will raise the percentage from 23 to 30.

In Malabar, no further addition appears possible at present.

In South Arcot, a large area (about 785 square miles) has still to be added to "reserves" and the percentage will probably rise to 39.

In Chingleput, there is not apparently much to add. In the Saidápet taluk alone, about 96 square miles of unassessed waste are found to be quite unsuitable for reservation, they being either bare sandy wastes or swamps along the Buckingham canal. The District Forest Officer expects, however, to select a further area of about 14 square miles in the Ponnéri taluk, which will raise the percentage to 15.

In Tanjore, the addition may be reckoned at about 40 square miles, which will raise the percentage to 8.

From the above notes it will be gathered that the contemplated addition to existing "reserves" is about 1,364 square miles. The reserve total will then be about 9,462 square miles for the Circle, or, say, 9,500 square miles (in round numbers), which is about 15 per cent. of district areas including inam, zemin, and feudatory states and 37 per cent. of "lands at the disposal of Government." There is apparently an ample margin for the constitution of areas as village forests as contemplated.

5. *Reserved forests*—(See appendix 59-A).—The area constituted reserved forests up to date is as follows :—

ABSTRACT D.—Reserved Forests in square miles.

District.	Up to 1887-88.	During 1887-88.	During 1888-89.	Total.
Chingelput	63	24	5	92
North Arcot	195	..	174	369
South do.	3	59	32	94
Salem	171	388	39	598
Trichinopoly	31	13	92	136
Tanjore	..	..	8	8
North Coimbatore	99	..	20	119
South do.	566	..	..	566
Madura	288	16	23	327
Tinnevelly	287	..	..	287
North Malabar	118	..	..	118
South do.	15	24	..	39
South Canara	2	40	5	47
Total ..	1,838	564	398	2,800

The total area of "reserved forests" is now 4·43 per cent. of the district surveyed areas. The largest addition to this class was made in the North Arcot district; Trichinopoly comes next.

6. *Reserved lands under settlement* (included in appendix 59-D).—The following abstract shows the progress of settlement, in blocks and square miles:—

ABSTRACT E.—Forest Settlement.

District.	Under settlement up to 1887-88.		Added during 1887-88.		Added during 1888-89.		Total under settlement.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
1	2	3	4	5	6	7	8	9
Chingleput	20	98	10	15	17	18	47	131
North Arcot	37	369	46	314	2	50	85	733
South do.	52	220	18	14	15	49	85	283
Salem	76	697 (* — 2)	18	111	12	160	106	966
Trichinopoly	41	179 († — 1)	..	..	33	19	74	197
Tanjore	3	7	17	12	4	..	24	19
North Coimbatore	6	99 († + 20)	2	470	2	187	10	776
South do.	9	566	..	..	1	..	10	566
Madura	76	382 (‡ — 2)	14	108	4	12	94	500
Tinnevelly	10	539	29	50	..	..	39	589
North Malabar	13	261	..	..	..	..	13	261
South do.	6	40 († — 1)	10	19	5	241	21	299
South Canara	20	106 († + 7)	1	28	1	3	22	144
Total ..	369	3,563 (+ 21)	165	1,141	96	739	630	5,464

District.	Finally settled up to 1887-88.		Finally settled during 1887-88.		Finally settled during 1888-89.		Total finally settled.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	10	11	12	13	14	15	16	17
Chingleput	11	63	3	24	3	5	17	92
North Arcot	33	195	..	..	5	174	38	369
South do.	1	3	13	59	8	32	22	94
Salem	25	171	37	388	4	39	66	598
Trichinopoly	14	31	7	13	10	92	31	136
Tanjore	..	..	2	..	14	8	16	8
North Coimbatore	6	99	..	..	..	20	6	119
South do.	9	566	..	..	..	..	9	566
Madura	68	288	3	16	2	23	73	327
Tinnevelly	5	287	..	..	..	..	5	287
North Malabar	6	118	..	..	..	..	6	118
South do.	5	15	1	24	..	..	6	39
South Canara	6	2	2	40	5	5	13	47
Total ..	189	1,838	68	564	51	398	308	2,800

* Cut out at settlement. † Rectification of area by Survey, &c. ‡ Unreserved, &c.

7. The progress of the balance still under settlement is shown in the following abstract :—

ABSTRACT F.—State of settlement balance.

District.	Of those notified in 1884-85.		Of those notified in 1885-86.		Of those notified in 1886-87.		Of those notified in 1887-88.		Of those notified in 1888-89.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
1	2	3	4	5	6	7	8	9	10	11
Chingleput	..	..	..	..	5	9	8	12	17	18
North Arcot	..	..	..	..	..	..	45	314	2	49
South do.	..	..	11	97	19	29	18	14	15	50
Salem	9	74	1	16	1	8	18	111	11	159
Trichinopoly	..	..	3	3	7	39	..	..	33	19
Tanjore	..	..	..	..	1	7	3	4	4	..
North Coimbatore ..	..	..	..	..	..	..	2	470	2	187
South do. ..	..	..	..	..	..	..	..	..	1	..
Madura	..	..	..	..	4	59	13	102	4	12
Tinnevelly	..	..	5	252	..	..	29	50	..	..
North Malabar	3	103	3	40	1	..	..	..	..	..
South do.	..	..	..	..	..	..	10	19	5	241
South Canara	..	..	2	35	5	24	1	35	1	3
Total ..	12	177	25	443	43	175	147	1,131	95	738

District.	Total balance.		Remarks on the balance.					
			Settled and reported on.		Settled but not reported on.		Settlement proceeding.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	12	13	14	15	16	17	18	19
Chingleput	30	39	18	25	12	14	..	..
North Arcot	47	364	45	314	2	50	..	..
South do.	63	189	48	140	..	..	15	49
Salem	40	368	22	156	18	212	..	..
Trichinopoly	43	61	12	42	31	19	..	..
Tanjore	8	11	4	11	4	..	..	..
North Coimbatore	4	657	..	..	..	..	4	657
South do.	1	..	1	..	..	..	..	..
Madura	21	173	16	152	4	21	1	..
Tinnevelly	34	302	34	302	..	..	..	..
North Malabar	7	143	..	..	7	143	..	..
South do.	15	260	..	..	..	..	15	260
South Canara	9	97	5	47	3	47	1	3
Total ..	322	2,664	205	1,189	81	506	36	969

Judging merely from the areas put under settlement during the year and those finally settled, it may be considered that improvement in the progress towards reserved forests was not so marked as in the previous year; but a comparison of the "settled and reported on" balances of the two years shows that greater progress was made in the latter year (1888-89).

Of the 205 blocks of "settled and reported on" balance on 31st March 1889, final notifications in respect of about 20 blocks were submitted to Governmentf or approval. 123 were pending with the Board and 62 were returned to Collectors for revision. Hence the delay in the publication of the notification under section 16 after the settlement officers have completed their work.

8. Messrs. A. Pinto and A. M. Jones, Deputy Collectors, were employed throughout the year as special Forest Settlement Officers for this Circle, the former in charge of Chingleput, Madura, Tinnevelly and Coimbatore, and the latter in charge of North Arcot, South Arcot, Salem, Trichinopoly and Tanjore districts, Malabar and South Canara remaining, as usual, in charge of Divisional officers of the Land Revenue Department.

The work performed by both the special officers during the year was as follows :—

	Issue of proclamation after notification under section 4.		Settlement of claims.		Report after settlement submitted.		Final notification proclaimed.	
	Blocks.	Area in square miles.	Blocks.	Area in square miles.	Blocks.	Area in square miles.	Blocks.	Area in square miles.
Mr. Pinto	24	217	31	57	57	205	5	48
Mr. Jones	66	278	118	500	102	529	41	345

Mr. Pinto's salary and office establishment and contingent charges paid during the year amounted to Rs. 11,815, whereas Mr. Jones' cost Rs. 10,951.

The cost of forest settlement in this Circle since the commencement up to date is shown below :—.

	Rs.
1883-84	11,387
1884-85	19,578
1885-86	20,396
1886-87	33,264
1887-88	22,503
1888-89	22,766
Total ...	1,29,894

The total area of reserved forests as per Abstract D is 2,800 square miles, and by adding 1,189 square miles, being "settled and reported on" balance on 31st March 1889, we have 3,989 square miles, each square mile "settled" costing, on an average, Rs. 33.

Besides the above area, 506 square miles remained "settled" on 31st March 1889, but were not reported on owing chiefly to the pendency of several important appeals (on Forest Settlement-officer's decisions) in the District and the High Courts.

The Periyakalrayan second appeal in the High Court, referred to in the previous year's report, was dismissed for default and costs awarded to Government. The appeals preferred by Government against the decisions of the appellate courts of North and South Malabar in respect to the Padri, Kanot and Periya forests in North Malabar were still pending in the High Court at the close of the year.

9. *Reserved lands* not under settlement (included in Appendix 59-D). The following abstract shows the additions and transfers in this class of reserved lands. The object with which this abstract has been introduced is explained in paragraph 8 of last annual report :—

Abstract G.—Reserved lands not under settlement (included in Appendix 59-D) in square miles.

District.	Up to 1887-88.	Added during 1887-88.	Added during 1888-89.	Total.	Transferred to settlement up to 1887-88.	During 1887-88.	During 1888-89.	Total.	Balance remaining as simple reserved lands.
Chingleput	123	14	16	153	98	15	18	131	22
North Arcot	819	42	50	911	369	314	50	733	178
South do.	220	14	49	283	220	14	49	283	..
Salem	888	122	158	1,168	695	111	160	966	202
Trichinopoly	199	35	2	236	178	..	19	197	39
Tanjore	7	12	6	25	7	12	..	19	6
North Coimbatore ..	1,128	824	..	1,952	119	470	187	776	1,176
South do. ..	584	..	..	584	566	..	..	566	18
Madura	509	54	..	563	380	108	12	500	63
Tinnevelly	604	— 13	— 1	590	539	50	..	589	1
North Malabar ..	281	..	..	281	261	..	..	261	20
South do. ..	40	46	241	327	39	19	241	299	28
South Canara	110	910	5	1,025	113	28	3	144	881
Total ..	5,512	2,060	526	8,098	3,584	1,141	739	5,464	2,634

Of the 526 square miles added during the year, 6 square miles in Tanjore were all that were constituted reserved lands during the year under rule 2 of the rules under section 26 of the Act, the balance, 520 square miles, being treated as reserved lands by reason of their having been notified under section 4 of the Act. The largest area added was in South Malabar, where the newly-purchased Amarampalam forest and the Attapadi valley blocks were notified under section 4.

Of the 739 square miles transferred to settlement during the year by notification under section 4—

2 Square miles in Chingleput,
17 „ in Trichinopoly,
187 „ in North Coimbatore,
12 „ in Madura,

or 218 square miles in all were from areas of simple reserved lands previously constituted as such.

There were remaining at the end of the year 2,634 square miles of simple reserved lands, from which further selections of areas will be made for notification under section 4. The following is a rough estimate of areas likely to be proposed :—

	SQ. MLS.
Chingleput	36
South Arcot	463
Salem	622
Trichinopoly	102
Tanjore	39
Coimbatore	299
Tinnevelly	4
Malabar	35
Total ...	1,600

10. *Unreserved land.*—Appendices—forms 59 B and E—show areas of unclassed forests recorded for reservation, &c. The former exhibits a balance of 194 square miles and the latter 1,452 square miles on 31st March 1889.

Selections of blocks for notification under section 4 according to the preceding paragraph will be made also from these areas.

11. *Boundaries.*—The following lengths taken in hand are reported :—

—	Miles.	Cost.	Average.
		RS.	RS. A. P.
Up to 1887-88	4,312	43,962	10 3 2
During 1887-88	1,701	11,613	6 13 2
Do. 1888-89	1,572	16,191	10 4 10
Total ..	7,585	71,786	9 7 2

Although the expenditure during the year was much larger than in the previous year, and even exceeded the revised budget allotment for the year by Rs. 1,111, still the lengths of lines cleared or demarcated were smaller. This was apparently due to more perfection required in the completion of works, as the Deputy Superintendent, Government of India Survey Party, had complained of the work previously done being imperfect. The Acting Conservator issued detailed instructions to all District Forest Officers pointing out the importance and urgency of the work, and how it could best be done.

Boundary pillars were required to be set up at points that could be taken up by the Survey, and a thorough clearing of lines between them as well as other interior lines (which it was desired to show in the maps) was insisted upon. It was recommended that boundary lines should be cleared 15 or 18 feet broad (the pillars standing in the centre of the line), the trees being cut as low down as possible and removed from the line.

Attention to these and other details necessarily caused increased expenditure during the year in several districts, notably in Salem, where a great deal of clearing of boundaries was done for the Government of India Survey Party. The

number of miles demarcated in that district during the year was 534 at a cost of Rs. 6,282, or at an average rate of Rs. 12 per mile; whereas in the previous year only 407 miles were demarcated for Rs. 3,969, the average rate being Rs. 10 per mile. The progress made during the year in North Coimbatore and Tinnevelly may also be regarded as satisfactory, the lengths demarcated being 362 and 214 miles, respectively. North Arcot comes next with a length of 125 miles and Madura shows 100 miles. The lengths demarcated in other districts were less than 100 and do not call for any special mention.

In Chingleput—Besides the demarcation of 57 miles, 10,000 palmyra nuts were planted along about 3 miles of the Madayattur reserve boundaries.

In South Arcot—The want of taluk maps is reported to have prevented the Acting District Forest Officer from making calculations of outlines, &c., demarcated in previous years. He mentions, however, that most of the forest blocks in his district are demarcated by Revenue Survey stones, and that many have been roughly and incompletely demarcated by forest watchers by a ditch, a bank, or a fence, and such like. It is of course necessary to adopt a uniform system of demarcation after the settlement is completed

In Salem—A special demarcation officer was at work for 4 months. He was not able to do much work and his services were subsequently dispensed with. The District Forest Officer reports that, in order to assist all concerned in settlement, a system has been adopted whereby preliminary demarcation by flags is recorded on sketch-maps, and each post numbered and shown to the village officers, in whose charge they are temporarily placed.

Notices under the Boundaries Act were served on the owners of nine private forests, of whom seven had cleared their boundaries and two had not begun work up to the close of the year.

In Madura—The undemarcated portion of the southern boundary of Yerasakanayakanur zemindari was only partially completed.

In North Malabar—The proposed Kudrakote reserved forest was divided into thirteen blocks, and their preliminary demarcation hurried on, but the difficulty of procuring sufficient labor and the incompetence of the Ranger in charge of the work (whose services were since dispensed with) retarded progress.

No demarcation work could be carried out in any of the other ranges of the division owing to the appeals still pending.

In South Malabar (Nilambúr)—The whole area, except the Silent valley and the new Amarampalam forests, was surveyed and demarcated long before the introduction of the Forest Act, but no record is available to show the extent and cost.

An attempt at preliminary demarcation of the new Amarampalam forest was made and about forty-eight miles were attended to, but the work had to be postponed pending result of an appeal to the High Court by the late owner disputing the sale. The sale has since been held to be valid and confirmed.

CHAPTER III.

Surveys and Working Plans.

12. The revised budget allotment for the year was Rs. 40,616. The actuals amounted to Rs. 45,198, which include Rs. 39,337 on account of forest surveys by the Government of India.

Surveys.—The Government of India Survey Party, which was engaged mainly on topographical surveys in Madura, Tinnevelly and Travancore, has been transferred from 1st November 1888 to the Madras Government for employment exclusively on forest surveys in this Circle. A working season from November to March was fixed. It has since been changed to "from 1st September to 1st March" on the motion of Major J. R. McCullagh, R.E., Deputy Superintendent in charge of the Party. The adoption of a uniform working season for several districts may prove a difficulty; for the healthy season in different forests varies according to situation, altitude, and rainfall. For example, the depth of the monsoon is the healthy season in South Coimbatore,

but is unhealthy in parts of North Coimbatore, &c. Some forests are healthy in the hot weather, while others are deadly at that time. It was agreed that the scale to be adopted generally should be 4 inches to the mile with contours of 25 feet vertical. The Deputy Superintendent's estimate of annual outturn of work was 600 square miles of country.

From a statement obtained from the Deputy Superintendent, the approximate actual outturn of work during 1888-89 appears to have been the completion of topographical survey on the 4-inch scale of 169 square miles of reserved forests and triangulation and traversing in advance of 1,000 and 240 square miles, respectively.

The Deputy Superintendent remarks that the maps of the Madras Survey whenever available have been consulted. He finds fault with the demarcation work in many cases, and attributes the smallness of the outturn of topography to bad weather in the field, sickness among the subordinate establishment, &c.

The party was at work in three districts, viz., Tinnevelly, Madura and Salem. In the first-named two districts, the work consisted chiefly of the traversing of boundaries and topography on the 4-inch scale of forest reserves, and in Salem, it was mostly triangulation with a certain amount of traversing.

In Tinnevelly—The whole of the Srivilliputur block No. V has been surveyed together with a portion of the adjoining proposed reserved forest extending to the base of the slope, and in Madura four blocks of reserved forests (Mudimalai, Pillaiyar Nattam, Alagarmalai, and Vikkramangalam) have been completed.

The fair mapping of these blocks was in progress at the close of the year. The cost of forest surveys during the year by the Government of India Survey Party amounted to Rs. 39,337, and a sum of Rs. 5,861 was expended on surveys, &c., done departmentally in the following districts: —

In Chingleput—The survey of the southern portion of the Kambakam hill reserve was plotted during the year.

In Salem—A temporary surveyor was at work for ten months in the year and surveyed, with compass and chain, an outline of 158 miles of thirteen reserves with an area of about 100 square miles. Maps of 12 reserves in this district were enlarged at the Madras Survey office to a scale of 16 inches to the mile. 8-inch scale maps of 5 reserves were received from and returned (after approval) to the Survey office to be photozincographed.

In Trichinopoly—A temporary surveyor was at work during the second half of the year. He completed the traverses and made rough plans of 5 reserves previously surveyed; and surveyed with theodolite and prepared traverses and rough plans for 3 other reserves with an area of 8 square miles. This completes the survey of Manaparai sub-range in Kulitalai range. The above traverse survey resulted in the discovery of an increase of 4,487 acres in 5 blocks, and a decrease of 597 acres in 3 blocks, the net increase being 3,890 acres or 6 square miles.

In Tanjore—A temporary surveyor surveyed with theodolite some of the casuarina plantations and natural scrub jungles, and also prepared plans.

In Madura—A large clearing of lines was made for survey purposes. An enlargement of the old 4-inch Alagar hill map on the 8-inch scale and a map on the 8-inch scale of the Katchakati valley or No. IV Range forest, were received from the Madras Survey.

In Tinnevelly—A departmental survey of a portion of the Pápanásam forests was in progress, but its completion was delayed owing to the surveyor's urgent deputation to look after demarcation works.

In South Canara—A temporary surveyor was at work during the whole year and surveyed 62 square miles of reserves for Rs. 1,002, or Rs. 16 per square mile. The work was done with the plane-table, but recourse was had to chain and compass also when required; and includes observation of rivers and water-courses, roads and pathways, wet, dry and garden cultivation within and bordering the blocks under settlement, sundry details and the configuration of the ground by plane-table, and hill shading in which the contour lines are taken entirely by eye, the general result

being based in the case of the ghât slopes in some degree on the heights shown by the trigonometrical survey.

The areas reported as surveyed departmentally up to the end of the year are as follows:—

—	Square miles.	Cost.	Average.
		Rs.	Rs. A. P.
Up to 1887-88	1,162	6,114	5 4 2
During 1887-88	117	5,864	50 1 11
Do. 1888-89	170	5,861	34 7 7
Total ..	1,449	17,839	12 5 0

The Madras Survey made arrangements during the year for resuming and completing the survey of the padugais in the Trichinopoly district, but no information is available showing progress made.

13. *Working plans.*—No marked progress can be expected in this direction until we either have a special working plans branch duly organised and set to work in a systematic manner, or the superior staff is considerably augmented. The charge of our District Forest Officers is already far too large for efficient supervision of even ordinary works, and it would be expecting too much if they were required to make any real progress in working plans without special or extra assistance. The District Forest Officers will, of course, be in a position to furnish much valuable data and useful information, but the work itself will probably be done best by a special agency, to be employed exclusively on it, as in the case of surveys. Good reliable maps also are absolutely necessary.

The Government have not yet signified their approval of the preliminary working plans for the Chinnar and Noyil-Vellengiri working circles in the Bolampatti range, submitted to them in 1887-88. There has however been a reference from Government in connection with these working plans, inquiring whether fees were collected for cattle-grazing in the Attapadi valley, and whether the pasturage available in that valley was reasonably accessible to cattle-owners residing in the Bolampatti valley villages, &c. The Collector has since replied, but Government appear to await further report. Considering the remarks of the District Forest Officer (Mr. Porter), the substance of which is given below under head South Coimbatore, it seems still doubtful whether the plans in question will quite do for the purpose intended.

In Chinglepat—Compartment lines were marked in the Kambakam, Ambakam and Sattiavedu reserves; a preliminary working plan for the first-named reserve was also completed by the District Forest Officer for submission to the Conservator; a similar plan for the Ambakam reserve was in progress at the close of the year. The working plan for the Meyur plantation drawn up in the previous year requires alteration owing to several casuarina trees of 6 years' growth having been blown down during the cyclone in October last.

In North Arcot—Compartment No. 3 (49·15 acres), Virinjipuram of the "plantation working circle," was felled. The yield amounted to 1,042 tons of wood, whereas the working scheme (10 years' rotation) was based on an annual acre-increment of 3 tons. There is however yet some more wood to be obtained from the area in question. The planting of it was very irregular; some of the trees were 15 years old, and others were of all ages from 12 to 6 years. Hence the large discrepancy in yield between the estimate and actuals.

Compartment No. 3, Kilminnel (area 26·10 acres), was also felled for sleepers and supply of fuel to the jail at Vellore. The outturn has yet to be ascertained. Ten years is found to be the best age at which casuarina pays well in the district. The trees then average 10 to 12 inches in girth at 9′ × 9′ apart. They do not require splitting up for engine fuel.

The growth of casuarina here is not as rapid as on the coast, and plants die out in large numbers for want of moisture in the soil. The plantations nevertheless pay fairly well.

In Trichinopoly—The provisions of the sanctioned working plan of the Cauvery line plantations were strictly adhered to.

In South Coimbatore—The result of the year's felling in the Sholakarai block was found to be very satisfactory. Mr. Porter had considerable difficulty here in getting contractors to agree to the terms of the Forest department, particularly as to felling flush with the ground, and trimming the stumps; but all those difficulties have been surmounted.

It was found that the original working plan was unsatisfactory, in that provision had not been made for returning quickly enough to the purely bamboo coupes. This defect has been lately remedied. The Tekadi leased forest (26 square miles) and the Nojil-Vellingiri blocks (20·7 square miles) of the Bolampatti reserved forest have been worked under the jardinage system according to working plans, but without satisfactory results. In regard to the leased forest, the District Forest Officer proposes to substitute the system known as the "*mode des éclaircies*," that is, the method of thinning over a certain portion of the area, treating the rest of the forest as before under jardinage, that is selection felling of overripe, ripe, or specially-wanted trees. It has been found that the preliminary working plan is defective, because the estimate of the stock of timber was taken by linear valuation surveys over only from 5 to 6 per cent. of the area of the forest, and a serious attempt is being made to count *all* the trees. This is a great undertaking, but can be done. The weak point of all the rough working plans adopted for large tracts of forest is that they do not sufficiently provide for regrowth; and it is proposed to try to foster the growth of teak by the method of thinnings.

In Madura—Working plans for Alagarmalai and Gundan shola were prepared by Mr. Gass, but have not been submitted for approval owing, in the former case, to his desire to verify the accuracy of areas, &c., adopted from the Madras Survey map with the new one expected from the Government of India Survey Party, and, in the latter, to final settlement and notification of the block as a reserved forest not having been completed.

In South Malabar—The working plan of the Wálayár reserve was submitted for approval; certain compartment lines in the reserve were also opened out during the year.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

Section 1—Reserved Forests.

Section 2—Other Forests.

(a) Establishment, Ranges and Beats.

14. *Establishment.*—The sanctioned establishment for the Circle consisted of—

—	For the year 1887-88.	For the year 1888-89.	Difference.
Permanent.			
Conservators	1	1	..
Deputy Conservators	7	7	..
Assistant Conservators	6	6	..
Sub-Assistant Conservators	6	7	+ 1
Rangers	30	33	+ 3
Foresters	73	77	+ 4
Forest Guards	359	396	+ 37
Clerks	88	88	..
Peons	108	108	..
Temporary.			
Supervisors	51	59	+ 8
Surveyors	6	7	+ 1
Draughtsmen	2	2	..
Depôt-keepers	11	11	..
Watchers	649	779	+ 130
Tannahdars	307	302	— 5
Lascars	23	23	..
Gardeners	96	73	— 23
Clerks	7	9	+ 2
Peons	18	18	..
Total Officers	1,848	2,006	+ 158

The small increase in the number of both permanent and temporary employés is fully justified by the increase of 543 square miles in the area of forest reserves and of Rs. 87,889 in forest revenue over the previous year's results. The proposals for an extension of the permanent controlling and executive staff appear to be still under consideration by the Government of India. Meanwhile, the Local Government called for a scale of permanent subordinate establishments to meet the present requirements of the department. One was submitted by the Acting Conservator (Mr. Cherry), the total cost proposed being 33 per cent. over the existing scale, but it did not meet with the approval of the Board. The matter, however, is still pending with Government. Dr. Brandis himself in his "Suggestions" written in 1882 foresaw and urged the necessity for a revised and increased scale being prepared after three years' experience. Six years have since elapsed. 8,098 square miles of reserves are in hand. And the revenue has risen from 5½ to 9 lakhs. Under these circumstances, a considerable increase to the permanent staff seems justified, and demands are urgent from almost all districts.

Ranges and Beats.—The 13 Forest Divisions or District Forest Officers' charges in the Circle remained divided into 69 ranges, of which 31 were in charge of Rangers and 38 under Foresters, no better arrangements being possible under existing circumstances. A Range officer's average charge was 916 square miles of country with 117 square miles of forest reserves in it.

The number of Forest Guards' beats may be said to equal the number of Guards, which was 396, the average extent of a beat being 160 square miles of country with 20 square miles of reserves in it.

(*b*) *General Protection and Breaches of Forest Laws*—(*Appendix* 63).

15. There can be no doubt that general protection had continued to improve, for besides the reasons urged in the last report, it will be seen from Appendix 63 that the number of offences of "unauthorized felling or appropriation of wood and minor forest produce" alone detected during the year was 1,700 as against 1,065 in the previous year.

Abstract H—Forest offences—see Appendix 63.

Year.	Brought forward from previous year.		Cases added.		Cases disposed of.							Balance.	
	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Percentage of cases withdrawn.	Percentage of cases compounded.	Amount realized.	Percentage of cases acquitted.	Percentage of cases convicted.	Cases.	Persons.
									Rs.				
1887-88 ..	156	..	1,644	..	1,627	4,305	1	36	3,271	14	49	173	..
1888-89 ..	173	..	2,201	..	2,167	5,557	4	41	4,915	15	40	207	..

The percentages of cases withdrawn, compounded and acquitted, as compared with those of last year, have risen by 3, 5, and 1 respectively. The withdrawal of cases was chiefly in Salem and South Coimbatore. In the former, it was due to the District Forest Officer having arranged for direct reports being sent to him of all cases to enable him to decide whether they should be prosecuted, compounded or withdrawn, and in the latter (South Coimbatore) it was owing to petty cases having been withdrawn after warning the persons concerned. The action taken by the District Forest Officer of Salem will result, if generally permitted, in a saving of time and references; but the question of the legality of the course is still pending.

The rise in the percentage of cases compounded by Forest Officers is highly satisfactory. The compensation realized during the year shows an average of Rs. 5-7-8 per case and Rs. 2-2-8 per person accused as against Rs. 5-10-1 and Rs. 2-1-3 respectively last year. These results seem to show that the power to compound was exercised with tact and judgment. The largest percentage of cases

compounded was in Trichinopoly, North Arcot and South Arcot coming next. Of the amount of compensation realized, Salem and Trichinopoly contributed over Rs. 1,000 each, North Arcot and South Coimbatore over Rs. 500 each, and the rest under.

Convictions were obtained in 40 out of the 55 per cent. of cases tried by the magistracy during the year as against 49 out of the 63 per cent. last year.

In Chingleput, North Arcot, Madura and Salem, over one-third of the cases tried were acquitted. The District Forest Officers of the first three districts have not explained the cause. The District Forest Officer, Salem, notwithstanding the fact of his having directly taken into his own hands the control of these cases, attributes the result to the " apathy of the subordinates and the difficulty of securing the evidence of witnesses unconnected with the department."

1,326 head of cattle in Chingleput and 6,299 in South Arcot were impounded for trespassing into forest reserves. The pound fees collected in the latter district amounted to Rs. 754. In North Arcot and in South Coimbatore most of the cases compounded were those of cattle trespass.

(c) Forest Fires and Fire-protection—(Appendix 62).

16. The revised budget allotment for the year was nearly worked up to, and the actual expenditure amounted to Rs. 20,053.

Forest fires cannot be properly recorded until the " record maps " referred to in the last annual report are ready for all the reserves. Such maps can only be prepared after the completion of surveys, when good general maps of reserves will be available for the purpose. In the meantime, the information furnished regarding forest fires in unprotected areas must be taken for what it is worth and should not be altogether relied on. It will be seen from the following abstract that the percentage of area which escaped fire in the untraced or not specially-protected tracts was the same as in the preceding year :—

ABSTRACT I—Fire protection (see Appendix 62) in square miles.

—	UP TO 1887-88.		DURING 1887-88.			DURING 1888-89.			Total cost per square mile.
	Forest reserves attempted.	Total cost per square mile.	Attempted.	Percentage which escaped.	Average cost per square mile.	Attempted.	Percentage which escaped.	Average cost per square mile.	
		RS.			RS.			RS.	RS.
Fire-traced ..	1,081	56	1,250	99	16	1,502	97	13	67
Untraced ..	4,414	..	6,305	69	..	6,596	69	..	..
Total reserves ..	5,495	..	7,555	..	..	8,098	..	..	..

From the above it will be seen that the addition to the fire-traced area during the year amounted to 252 square miles as against 169 square miles in the preceding year. The districts of North Arcot, South Coimbatore and Tinnevelly contributed largely towards the increase. The average cost per square mile was Rs. 13 as against Rs. 16 in the previous year, which is a reduction of about 9 per cent. The percentage of success was 97 as against 99 in 1887-88, the decrease of 2 per cent. being due solely to large fires which occurred in North Malabar.

In this division the Begur reserved forest (area 24 square miles) was " specially protected " as usual at a cost of Rs. 893 during the year and the Kurchiyat reserved forest (in Chedlet) with an area of 28 square miles, which up to the preceding year was only partially protected with considerable success, had been placed under special protection during the year at a cost of Rs. 317. In the former, fire protection was commenced in time and complete isolation secured. No fires crossed the frontier either from Mysore or from Coorg, but certain incendiaries made repeated attempts to fire the interior of the forest, though, through the vigilance of the Ranger in charge, they proved unsuccessful. Towards the close of the year, however, fires were lit in several places simultaneously near Masalbetta and Hoongivile, and as the wind was blowing very violently at the time, they could not be extinguished until they had burnt a large area, nearly one-third of the block. Two days after this occurrence another incendiary fire was discovered near Belgola hill; but the District Forest Officer (Mr. Morgan) was on the

spot and after much personal exertion arrested its progress. On the following day, a similar fire was observed at Aralagudday which was also put out by the District Forest Officer. On the whole, two-thirds of the forest was burnt over by these three fires. The District Forest Officer offered a reward of Rs. 100 to any one furnishing information which would lead to the detection of the offenders, but to no purpose.

The fires in the other (Kurchiyat) forest were even more deplorable. There were no less than four fires, three of which crossed the frontier from Mysore owing to delay on the part of our Ranger (Mr. Saldanah) in burning his fire lines, and the fourth was the result of incendiarism. Of the three fires from Mysore, the first occurred on 8th February near New Gulur and the Ranger succeeded in extinguishing it before it had burnt over 100 acres; the second occurred on the 13th idem near Old Gulur and burnt over two square miles, as there was much difficulty in putting it out at once, owing to the high wind blowing at the time; the third happened on the 16th idem near Bunkavadi road and had passed through one square mile before it was arrested. The Ranger's excuse was that the Forester of Mysore who had instructions to co-operate failed to attend in time. The Ranger was censured for his indiscretion in submitting himself to the delay, and the conduct of the Mysore Forester was duly brought to the notice of the Mysore authorities (*vide* Board's Proceedings, 20th May 1889, Forest No. 276).

The fourth of the incendiary fires was lit on 4th March simultaneously (about noon) in the interior of the forest in three places near Dod Colachy, Madapalli and Amavoil. Although the Ranger went over to the spot at once, he was unable to prevent the fire, as the number of coolies required for prompt action was not available. In the meantime, the fires from the three points had joined and formed one continuous blaze extending over 8 miles in length and $2\frac{1}{2}$ miles in breadth. This placed matters beyond remedy. The fire continued to burn for six days and spread over the whole area of the forest in question. There were no interior fire lines and the protection was dependant upon a good exterior line only. It is reported that, even if the former had existed, it was doubtful if the fire could have been localized, as high winds continued to prevail throughout. The fires have of course done much damage, for the effect of a fire is enhanced by previous protection. The problem of protection in these forests is so difficult that it is easy to understand the almost hopeless tone with which the officer in charge summed up his report on these fires. In some parts the grass is over 6 feet high and is in the hot weather as dry as tinder; in other parts the ground is covered with dead leaves; and when it is remembered that the forest tribes have burnt the forest for generations for sport or simply for freedom of movement, that there are wandering tribes of Brinjaris who burn the grass for their cattle, and that one of the simplest ways of paying off a grudge against a forest official high or low, is to burn his forests, it is no wonder that fire protection is difficult. The remedy lies probably in not attempting too much; and too much is attempted at present.

The percentage of fires in other districts were either *nil* or very trifling and they are not worth special mention in this report; but it is to be feared that the immunity is in some cases fictitious and the result of defective reports. The Acting Conservator believes, however, from late inquiries on the spot that fire protection on the Anaimalais (South Coimbatore) was particularly successful last year.

In North Coimbatore, on the contrary, the attempts at fire protection seem to have fallen into the other extreme and not enough special protection was attempted. The Collector remarks that it was a pity that the Vellamundi and the Eastern Slopes Nilgiris reserved forests were not protected at least in parts.

Referring to the remarks of Government on the previous annual report in the matter of cost of fire protection, the Conservator has not yet been able to ascertain how in Bombay special fire protection cost only Annas 2 per square mile! The Acting Conservator will, however, quote here for the information of the Board and Government the explanation of one of our trained Forest Officers (Mr. Porter) regarding the cost of fire protection in the South Coimbatore division under his charge.

"In comparing the cost per acre of fire protection, the nature of the jungle through which the fire lines run has to be taken into consideration. On the Anaimalais and in the Bolampatti Valley, the lines have to be cut through a very dense inflammable undergrowth, and to ensure perfect safety it is necessary to give them a breadth of 50 yards; on the Nilgiris, near Oota-

camund, a fire line 6 or 7 feet broad running over a grass hill may be sufficient and it at any rate costs very little and yet people unacquainted with the local circumstances wonder why there is so much difference in the cost of fire protection in different districts."

(*d*) *Grazing.*

17. The policy advocated by Government in their review of the Forest Administration Report for 1886-87 has been steadily kept in view and constantly urged on the attention of District Forest Officers. That advance in the matter of levying grazing fees has been only gradual, as desired by Government, may be inferred from the fact that the revenue under II. (*d*) Grazing, during the past year amounted to Rs. 52,396 (which was very near the revised budget estimate) as against Rs. 46,038 in 1887-88 and Rs. 35,665 in 1886-87, whereas if the rights of Government to levy grazing fees in all districts in forest lands under the control of this department were fully insisted on, the revenue would have amounted to a very much higher figure.

It will be seen from the following abstract that the small increase in revenue was proportionate to the increase in the number of cattle grazed, the fact that the average rate per head remained the same as in the preceding year showing that there was no additional taxation.

ABSTRACT J.—Grazing and grass collections.

Items.	During 1887-88.			During 1888-89.		
	Number.	Amount.	Average.	Number	Amount.	Average.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
By grazing fees per head	285,233	42,650	0 2 4	331,080	48,366	0 2 4
Do. contracts per square mile By grass sales per ton	..	3,388	..	..	4,030	..
Total ..	285,233	46,038	..	331,080	52,396	..

North Coimbatore collected the largest amount of revenue (Rs. 23,005).

The North Coimbatore forests are a huge grazing ground, not only for cattle of the district, but also for foreign cattle. Owing to the difficulty of communication, these forests cannot, for the present, be worked to any great extent profitably for timber, at any rate departmentally. Grazing fees were levied at Annas 2 a head for cattle of the district, and at Annas 4 a head for foreign cattle. Hill villagers were allowed free grazing at the rate of 4 annas for each acre of patta area and villagers at the base of the hills at 1 anna per acre. South Coimbatore, Trichinopoly and Salem contributed over Rs. 5,000 each and North Arcot, Chingleput and South Arcot from about Rs. 2,000 to 3,000 each.

The following district notes are added:—

In Chingleput, the system under which grazing in the reserves is permitted has been better understood. This and the improved pasturage available created a considerable demand for grazing permits.

In North Arcot, grazing on payment was permitted in only three or four reserved forests up to 31st December 1888, but from 1st January 1889 the reserves in Chittur, Chandragiri, Palmanér, Gudiyátam and Pólúr have also been thrown open at half rates, even which many villagers are not inclined to pay as they have ample free grazing ground available outside the reserves, but with the advance of time and cultivation the revenue from grazing is expected to improve. Personally the District Forest Officer (Mr. Sheffield) is averse to any sort of grazing being allowed in reserves, at least for the next 20 years. He complains of very great damage done in newly-formed reserves by the admission of cattle and consequently fire.

Under instructions from the Collector, the District Forest Officer had large quantities of grass cut in the Chittoor and Ambúr reserves and converted into hay which was distributed free of payment among the ryots in the neighbourhood for the use of their cattle after explaining to them the process of manufacture and the advantages of having a large store of hay for use during the hot season when pasturage is

scarce and cattle have to be sent to long distances for a scanty supply of green grass. The ryots evinced interest in the experiment and promised to take it into their own hands this year.

Free grazing was permitted both in the reserved lands and in the open forests (unreserved) as usual.

In South Arcot, the Collector remarks "there have been scarcely any complaints from ryots of the imposition of those (grazing) fees which is a satisfactory symptom."

In Salem, two or three reserves in each range were thrown open for the grazing of a limited number of cattle, preferentially those belonging to neighbouring cultivators, on payment of half rates. The District Forest Officer advocates a further reduction in rates and admission of cattle into reserved forests (not under special fire-protection) without limit as to numbers in places where there is not much young growth requiring protection.

In Trichinopoly, the right of grazing in the Cauvery and Coleroon plantations and padugais was leased out.

Cattle were allowed to graze on payment of fees under the permit system in all other reserved forests and reserved lands, but goats were strictly excluded. One of the Range officers reported that, in consequence of this prohibition, many ryots had sold their goats and bought sheep instead! The District Forest Officer, however, remarks that attempts to graze goats illicitly are frequently noticed and that owing to the inadequacy of the number of guards and pounds existing, several cases go undetected and consequently unpunished. Cattle found trespassing have to be taken to village pounds 6 or 7 miles distant from the reserves in some cases. This is difficult to manage and cattle owners try to rescue their cattle on the way to the pounds.

In North Coimbatore, there is nothing to add beyond the fact that the census-taking of cattle was repeated on the 30th April 1888. Besides grazing fees, the District Forest Officer realized Rs. 480 by sale of grass. The Collector remarks that this revenue is not worth retaining and wishes that the cutting of grass (free of charge) should be encouraged. This remark may be true for North Coimbatore, or for such parts as contain very large blocks of forest, but is not to be taken as applicable to all sorts and conditions of forests.

In South Coimbatore, Range officers and Guards are reported to have been more active in preventing unauthorized grazing.

In Madura, a number of reserved forests was thrown open for grazing on payment of half rates. Owing to the scarcity of fodder in the plains in No. V. Range, free grazing was permitted as a temporary measure in one of our chief reserved forests—Alagarmalai hill. There were no complaints regarding insufficiency of pasture grounds, nor was any serious damage done to forests when cattle were admitted under proper supervision.

In Tinnevelly, the greater portion of reserved lands being available for free grazing, there was not much demand for pasture in reserved forests, although they were open for the purpose under certain restrictions regarding fire, &c.

In North Malabar, an immense area for free grazing is available outside the reserved forests.

In South Malabar, no cattle require grazing in Government forests as there are many private forests available for the purpose.

In South Canara, the question of grazing has not been taken in hand.

(*e*) *Natural Reproduction.*

18. The following notes are taken from the district reports:—

In Chingleput, the natural reproduction was promising on the whole. The Red-sander (*Pterocarpus santalinus*) seedlings were found to be plentiful on the western slopes of the Kambakam hills; and coppice of other species was fair.

Babul coppice in the Pulrambakam reserve was a failure, as the shoots were all destroyed during the heavy rains in October last. The subsequent growth was found to be poor.

In North Arcot, the Napier and the Mámandúr reserves were found to contain numerous seedlings of all kinds, the most predominating species being the Red-sanders and *Anogeissus latifolia*. Even the mature trees in these reserves showed vigorous growth. In the fenced reserves from which cattle were strictly excluded, the improvement in growth was so marked that (according to the District Forest Officer's statement) where a man could have ridden over the highest bush in some of these reserves a few years ago, he could now hide himself on horseback among the bushes and trees. The improvement in the unfenced reserves was comparatively poor; and as both species of reserves have equally escaped fire, the District Forest Officer's conclusion seems warranted that the difference is entirely due to the exclusion of cattle.

In South Arcot, the re-growth is said to be fair, considering the difficulty in controlling cattle, and the want of an adequate staff of watchers.

In Salem, the District Forest Officer remarks on the destruction of forest on the Kollimallais for fugitive cultivation and states that the re-growth on the plains in such parts of the Uttankarai taluk for instance as have been closed for many years is meagre. However, he suggests that this may be the result of a defective establishment.

In Trichinopoly, the reproduction by coppice of *Wrightia tinctoria*, *Albizzia amara* and *Acacia planifrons* in the Manaparai hills, and by coppice and seed of *Cassia florida*, *Acacia arabica* and *Melia azadirachta* in the Cauvery plantations, and of *Acacia arabica* in the tank beds, and of *Memecylon tinctorium* in the Udayárpálaiyam range, was all reported to be satisfactory. The reproduction of bamboos from seed on the Pachamalais over areas where they died after seeding was also good.

In Tanjore, the coppice growth of *kasan* (*Memecylon tinctorium*) and avaram (*Cassia auriculata*) was fairly good.

In North Coimbatore, young growth of sandalwood in the specially-protected sandalwood reserves, and of Karuvélam (*Acacia arabica*), Velvelam (*Acacia leucophlœa*) and Margosa in the specially protected fuel and fodder reserves, was springing up.

In South Coimbatore, the coppice and seed reproduction in the Sholakarai block in No. VIII range was all that could be desired and the number of seedlings which appeared in the coupes felled over about a year after the felling, was simply surprising. The District Forest Officer considers that the block might with advantage be converted into a high forest; a very large percentage of these seedlings consisted of teak and rosewood, although the latter tree is scarcely found in the block. This and the fact that the immature trees in the block could not produce fertile seeds have led the District Forest Officer to suppose that either the seeds were lying dormant in the ground, or that they were carried there by birds, squirrels, &c., from the adjoining hills. As such a seedling reproduction was not anticipated when the working plan was framed, arrangements had to be made—now made—for the due protection of these valuable seedlings. In other ranges, even where the forests were under protection, the reproduction is not considered satisfactory for the reason that although the protection had resulted in a re-growth of some kind, still the more valuable species such as teak, blackwood and vengai were found to be scarce, *e.g.*, in the Punachi reserve in the Anaimalais which has been closely protected from the inroads of fire and cattle and promiscuous felling for six years, we find merely a splendid crop of grass and a few seedlings of the less valuable trees here and there, although there are many mature seed-bearing teak, rosewood and vengai trees in the reserve. The remedy suggested by the District Forest Officer has been already adverted to above under working plans, and consists in modifying the old system of selection fellings and assisting the reproduction of the better species of trees by a system of cleanings and thinnings.

In Madura, the coppice growth at Kadavur in Alagar hill reserved forest was coming on well.

In Tinnevelly, the reproduction both from seed and coppice continued to be good in the coupes felled on the coppice with standard system during the past three years.

In North Malabar, the seeding of *Pterocarpus marsupium* and blackwood was found to be satisfactory and there were many young seedlings, but most of them were

destroyed by the fires which occurred during the year. Teak as usual reproduced very badly. Reproduction in the Ghât forests (Periya) continued to be good.

In South Malabar, the growth from seeds and stools in Karimpoya and Nellikutta reserves continued to be good, and coppice growth in the Wálayár reserve was satisfactory.

In South Canara, the reproduction from coppice in Sabladi and Poitaji-Kayer Palla reserves was promising.

In the experimental clean felling made in Chinkramale in April 1887, the reproduction was fair, but the shoots were somewhat stunted and branch-like.

Several catechu seedlings were observed in Sabladi even after the hot weather, probably due to fire protection. A few casuarinas 5 years old which were cut back have coppiced well. Experiments in coppicing casuarina are much wanted, for the results are most uncertain.

(*f*) *Artificial Reproduction, Regular Plantations, Cultural Operations and Topes* (*see Appendices* 60 *and* 61).

19. This branch of work of the department received due attention during the year. The revised budget estimate was nearly worked up to and the actuals exceeded those of the previous year. The operations during the year also extended over a larger area.

The following abstract exhibits progress up to date:—

—	Up to 1887-88.		Added during 1887-88.		Added during 1888-89.		Total	
	Area in acres.	Cost.	Area in acres.	Cost.	Area in acres.	Cost.	Area in acres.	Cost.
		Rs.		Rs.		Rs.		Rs.
Plantations	11,786	5,85,048	+ 132	24,780	{ + 149 (a) — 275 }	25,532	11,792	6,35,360
Topes	18,909	2,91,586	— 26	3,381	+ 15	5,189	18,898	3,00,156
Other areas	2,972 and 100 miles of channel banks.	32,661	+ 389	1,978	+ 485	2,093	3,846 and 100 miles of channel banks.	36,732
Total ..	33,667 and 100 miles of channel banks.	9,09,295	+ 495	30,139	{ + 649 — 275 }	32,814	34,536 and 100 miles of channel banks.	9,72,248

(*a*) For explanation, see remarks in Appendix Form No. 60.

In Chingleput, 1,475 trees of six years' growth in the casuarina plantations were blown down during the cyclone. Floods in the Pálár washed away about 5,500 casuarina seedlings planted during the past two years in the Wallajah tope. They were since replaced.

Casuarina wood in about 14 acres of the Meyur plantation was felled. The yield was 50 tons to the acre on an average. The age is not given: presumably some 10 years.

12,000 casuarina seedlings were put down in the area felled over.

The mahogany, bamboo and other seedlings planted on the Kambakam hills were doing well.

The produce of all the topes was leased out for Rs. 211 as against Rs. 150 obtained in the previous year.

In North Arcot, a former Collector (Mr. A. J. Stuart) had large quantities of seeds of various kinds collected and sown in the Chittur reserve under all the different methods known, but the results were not encouraging. Numerous seedlings were produced, but most of them were stunted and did not thrive. On the other hand, the natural reproduction from old roots and stumps was found to be far superior to the artificial sowing.

In South Arcot, 50,000 casuarina plants were put out to fill up blanks in felled areas The plants were not good ones; the transplanting appears to have been most carelessly done with their roots much contorted. The transplants proved, therefore, a thorough failure. The question of the admission of charges is under enquiry.

1,642 measures of seeds of various kinds and 6,070 palmyra nuts were sown by different methods in several blocks.

In Salem, the topes situated in the compound of the travellers' bungalow were transferred to the Local Fund Board; those in the compound of public offices to the respective officers in charge of such offices; and the remainder were placed under the immediate supervision of the Revenue taluk authorities, the ultimate control over all the Government topes in the district being still retained in the hands of the District Forest Officer as representing the Collector.

In Trichinopoly, 24 out of a felled area of 73 acres in the Cauvery plantations were replanted with casuarina and *Cassia florida*; seedlings of casuarina, *Inga dulcis*, sissu and bamboo were put down in Coleroon plantations in Musiri to fill up blanks: 6 acres of the Coleroon padugais in Trichinopoly were planted with casuarina, and 4 acres were sown broadcast with babul seed. The latter was a failure due to want of rain.

In Tanjore, 207 acres were dibbled in with cashewnuts; 80 per cent. germinated and the plants were in a fairly good condition; seeds of *albizzia*, &c., were sown broadcast in several blocks; about 70 per cent. germinated, but the seedlings were fast dying out owing to excessive drought.

2,000 seeds of palmyra were sown *in situ* along the reserve boundaries. One-third germinated and was doing well.

In North Coimbatore, the paths in the sandalwood plantation were cleared and the trees pruned. The small stone anicut was repaired.

In Madura, the Vannathiparai teak plantation was thinned. The Kodaikánal *Eucalyptus* plantation was fenced again during the year and cattle strictly kept out. That helped to foster the growth of coppice shoots. The new planting at Gundan shola was extended during the year by about 15 acres. The planting was not so successful as in the preceding year, as there was severe frost in February last. The planted area was fenced in with a wooden post and rail fence.

Seeds were dibbled in and sown broadcast at Kadavur. Results were not known at the close of the year.

In Tinnevelly, 120,000 palmyra nuts were sown in 215 acres of the Kudirimalaiteri, where 14 acres were also sown with odai (*Acacia planifrons*) by penning some goats and feeding them on *Acacia planifrons* pods. A further area of 35 acres was planted with nanal grass. The cultural operations in the Southern range extended over an area of 14½ acres in the Ambásamudram taluk.

In North Malabar, the teak plantations at Kanót were weeded, pruned and fire-traced as usual. The trees continued to improve in appearance and their measurements recorded during the year under report were as follows:—

Number of block.	In what year planted.	Measurement of the largest trees.		Measurement of average sized trees.		Remarks.
		Height in feet.	Circumference near the base in feet.	Height in feet.	Circumference near the base in feet.	
I	1876 ..	80	3	60	2¼	About one-third of the number of trees look sickly and stunted.
II	1877 ..	75	2½	52	2	The average refers to one-half of the number of plants. All the trees look fairly better.
III	1878 ..	85	3½	60	2⅓	All the trees are healthy.
IV	1879 ..	..	..	27	1½	All the trees look fairly healthy. They were all attacked by caterpillars and the leaves skeletonised, but the trees did not materially suffer from this pest.

The Government Mukkie cardamom garden and the Mukkipoya cardamom plantation (purchased from Mr. Fletcher) were weeded and pruned during the year. The crop was fair on the latter estate.

In South Malabar, 112,450 teak and 1,342 mahogany plants were set out in about 117 acres. There were many failures owing to want of rain in due season, but they were replaced to the number of 20,455. 25,791 casualties of teak and 1,111 of mahogany in the previous two years' plantings were also made good. The average height of last year's plants (teak) was 8½ feet and girth at base 6 inches, which is noteworthy. The growth of mahogany was, however, not so encouraging.

Twelve pounds of mahogany seeds, received from the Superintendent, Government Botanical Garden, Calcutta, in August 1888, were sown at once in nursery beds. They germinated fairly; about 2,200 seedlings were raised in bamboo pots for the next planting.

In South Canara, the planting of casuarina at Ullal and Tannirbhavi was carried on as usual. There were but few casualties.

One acre of casuarina 20 years old was cleared at Ullal. The yield including roots and branches was 112 tons, the average annual acre increment being about 5½ tons.

(*g*) *Works of Improvement.*

20. The following may be noticed under this section:—

In Chingleput, portions of coppiced area in the Pulrambakam and Kambakam reserves were fenced.

In South Arcot, 81,000 trees were pruned and trimmed, and 5,678 trees were cleared of creepers. Thirty-three miles of patrol lines, 6 feet wide, were also cleared.

In Trichinopoly, cutting of creepers in the Cauvery padugai plantations was attended to; 24½ miles of reserve boundaries were fenced with thorns. Three more cattle pounds were constructed in three of the Cauvery padugai plantations and 85 head of semi-wild cattle were captured.

In North Coimbatore, fencing of the Arachalur reserve in the Erode taluk was partly attended to, and prickly-pear in that and in the Chennimalai reserve was eradicated.

In South Malabar, parasites in the teak plantations were cleared over an area of about 80 acres.

(*h*) *Experiments and Exotic Trees:*

21. The report on experiments with exotics, &c., is printed as an appendix as usual.

(*i*) *Communications and Buildings.*

22. Good progress was made during the year under this section of works, the total outlay exceeding that of previous years, more particularly under new works, both roads and buildings. The actual expenditure slightly exceeded even the budget limit.

ABSTRACT L.—Communications and buildings from commencement:—

Description of work.	Cost up to 1887-88 less percentage for depreciation.	Cost during 1887-88.	Cost during 1888-89.	Total from commencement.
		RS.	RS.	
Road and bridge repairs ..	Not yet ascertained.	4,610	4,656	..
New roads and bridges ..	Do. ..	9,414	11,689	..
Building repairs	Do. ..	5,593	4,183	..
New buildings	Do. ..	11,714	14,516	..
Other work repairs	Do. ..	778	584	..
New other works	Do. ..	379	220	..
Total ..	..	32,488	35,848	..

The new roads and bridges and buildings during the year consisted of—

In Chingleput, a tiled rest-house at Sattiavedu and two tannah houses in the Saidápet range.

In North Arcot, the completion of a bridge at Amerdi. This bridge was designed by Mr. Dwyer, Assistant Engineer, District Board. It consists of two masonry piers with a waterway of 17 feet; in the centre railway rails bolted together with timber between, span the waterway. It was well built so as to stand the floods The outlay was about Rs. 2,000. Carts can now go 4 miles further up the valley to the Amerdi forest, which is a most important one.

In South Arcot, continuation of work on the Tenmalai ghât road and of the extension of rest-house, and the partial construction of a Range office at Kallakurchi.

In Salem, extension of Hasthampatti bungalow and construction of six huts on the Kollimalais, &c.

In Trichinopoly, partial construction of a rest-house on the Pachamalais.

In North Coimbatore, construction of three rest-houses and six tannah houses in Satyamangalam and Kollegál ranges.

In South Coimbatore, making of roads and bridges for tramway, sinking a well and putting up a new wooden gate for the Coimbatore timber depôt.

In Madura, making of new roads in Alagarmalai, Gundan shola, &c., extension of the rest-house at Uttamapaliyam, construction of cattle and cooly sheds at Gundan shola, a rest-house at Kavalapatti, another at Sirumalai, a Forester's quarters at Balasamudram and a few huts for guards and tannahdars.

In Tinnevelly, tracing and cutting of 5 miles of bridle path from Sengalteri to Kariar in the Nángunéri taluk, widening and reducing the gradients of the Pápanásam ghât road at the first zig in the Ambásamudram taluk, making 2 miles of bridle path at Kaludaikadavu and 5 miles of inspection paths in Sankaranainárkovil taluk, and tracing 2 miles of the Alagarkovil bridle path in Srívilliputur taluk, completion of the Ranger's office at Vásudevanallúr and of the rest-house at Kalivilaipet, re-roofing, &c., Kannikotai Odei bungalow and construction of foresters' and clerks' houses at Kannikotai, a forester's office at Kalakad, a forest guard's house at Kariar, a watcher's house and four watch huts.

In North Malabar, completion of the forester's serambi at Kanôt and of the seed house and office in the experimental garden at Manantoddy, construction of a substantial inspection lodge in the Tirunelli forest and of a few huts.

In South Malabar, construction of 1 mile of road from the high road to new forest bungalow, 1 mile of road 12 feet wide, with side drains leading from high road to Wálayár chappa, and compartment roads in Wálayár, completion of the District Forest Officer's bungalow at Nilambúr and erecting a small building for a range office at Pálghat.

In South Canara, construction of a tannah house.

23. *Tramways.*—Nine miles of tramway referred to in the previous annual report arrived during the year.

In North Arcot, the tramway was laid from the Virinjipuram casuarina plantations to the Virinjipuram Railway Station—about 2 miles. The Acting Conservator

(Mr. Cherry) who had inspected it in January last remarked that it was rather hurriedly and roughly laid, but expected that the District Forest Officer would improve the permanent way from time to time. He was instructed to grease or paint the metal parts of the trucks—six in number—machinery, bolts, &c., to prevent their getting rusty. The District Forest Officer had about 100 tons of fire-wood carried on this line between October and January. He says it formerly cost him from Annas 8 to Annas 12 per ton for carriage, in bullock carts, but in the tram it cost only Annas $1\frac{1}{2}$ per truck load (exclusive of interest on capital outlay), a truck holding from 1 to $1\frac{1}{4}$ ton. The tram in North Arcot cost Rs. 10,000 *plus* about Rs. 500 for carriage and laying. The District Forest Officer estimated to carry 20 tons a day.

The 7 miles of tramway obtained for South Coimbatore cost Rs. 51,000 (delivered in the forest). Owing to its late arrival, the District Forest Officer was able to lay only 3 miles. Much difficulty was experienced both on account of the number of curves and of the steep gradients. The Acting Conservator (Mr. Peet) inspected this line quite recently. The difficulty in the curves lay partly in the fact that only the set curves sent out from England were employed at first, and there was a difficulty in fitting the line to the road; in fact the road had in many cases to be fitted to the line. The rail-bending machine was not properly understood, and broke.

Besides this, there was much difficulty experienced in getting the proper super-elevation for the outside rail at the curves: the trucks were constantly derailed at these curves, and the District Forest Officer attempted in some cases a super-elevation of over 4 inches to remedy this, but not with complete success. In short, there was so much difficulty experienced that it was judged advisable to apply for a professional engineer. The services of a capital practical Engineer, a Mr. Eden, have been obtained from Messrs. Fowler and Co., Calcutta, through Messrs. Leighton and Co., Madras; and the line is proceeding rapidly and satisfactorily. He has reduced the super-elevation of the outer line at the curves to under 2 inches, having discovered that one main reason for the constant derailment was two-fold, for, in the first place, the rails were in many cases too wide, and, in the second place, the centre of gravity was too much displaced if there was excessive super-elevation; for the springs on one side of the trucks were abnormally depressed, especially with a heavy weight upon them. He has successfully repaired the rail-bending machine, and is making much longer curves, and is fitting the line to the road. A great difficulty still remains, however, viz., the question of brakes. A special brake was sent out, which is, however, practically useless. This brake is fitted on to a special carriage, not on the trucks containing the timber. It is worked by a horizontal wheel and consists simply in a downward pressure on the line by means of a screw: in fact, as the Engineer said, it is to all intents and purposes a screw-jack, and the pressure on the line is equal to the weight of the carriage and no more. If excessive force is used in turning the horizontal wheel, the result is simply to raise the wheels of the carriage above the line altogether. On Mr. Porter's representation, Messrs. Fowler and Co. sent out *gratis* some block brakes to fit on to the timber trucks, but it is doubtful if sufficient force can be placed on the side levers, when the carriages are in motion. The whole question is engaging the attention of the Engineer. Another difficulty has also presented itself, viz., that, especially when the line is slippery, the wheels over when completely blocked, sometimes slide over the line, without gripping. A further question is that of the up-draught of heavy timber. This is a serious question about which no final decision has been reached. The Acting Conservator has proposed, for consideration, the question whether both the up-draught and the dangers of descent of steep gradients cannot be provided for by having a series of drums let in at intervals beside the line, similar to those used for the ropes of anchors. The suggestion was at first scouted, but will be considered. This matter has been gone into at length, because it may be of interest to record preliminary difficulties. Many of these would be overcome if we were allowed to deal direct with Messrs. Fowler's agents in this country, for it is understood that had we bought the plant from these instead of through the India Office, they would have lent an Engineer to give instructions about setting up the line.

CHAPTER V.

YIELD AND WORKING.

24. The total yield for the year as compared with that of the former year is shown in the following abstract, which has been prepared in accordance with instructions conveyed in para. 16 of the Government Order on the previous annual report.

ABSTRACT M.—Comparative yield.

Heads.	TIMBER IN CUBIC FEET INCLUDING SANDALWOOD.		FUEL IN CUBIC FEET.		BAMBOOS IN NUMBER.		MINOR PRODUCE IN MAUNDS OF 25 LB. EACH.	
	1887-88.	1888-89.	1887-88.	1888-89.	1887-88.	1888-89.	1887-88.	1888-89.
By Government agency	138,360	(a) 165,977	376,880	511,935	47,600	(b) 19,521	37,811	30,433
Do. Purchasers ..	1,108,440	1,266,812	5,999,040	7,779,800	5,446,800	6,183,415	2,324,672	1,353,497
Free grants	50,360	7,824	4,520	640	113,800	17,154	9,856	896
Total ..	1,297,160	1,440,613	6,380,440	8,292,375	5,608,200	6,220,090	2,372,339	1,384,826
Difference in 1888-89 as compared with 1887-88.	+ 143,453		+ 1,911,935		+ 611,890		— 987,513	

(a) Includes 623 cubic feet being excess found on re-measurement of timber collected and taken to depôt in previous year.

(b) Includes 3,660 bamboos purchased for rafting purposes.

There was an increase in the total yield of a little over 10 per cent. under timber and bamboos, and about 30 per cent. under fuel, and of a decrease of about 40 per cent. under minor produce on the previous year's totals. The differences will be explained under the heads to follow.

Section 1—*Departmental Operations* (*Appendices* 68, 69, 70, 71 *and* 73-A).

25. The following comparison of trees felled departmentally is given :—

ABSTRACT N.—Trees felled and converted (see Appendix 68).

Balance brought forward.	Felled, 1887-88.	Felled, 1888-89.	Converted, 1887-88.	Converted, 1888-89.	Balance carried forward.
480	4,417	4,438	4,809	4,175	351

The difference between the number of trees felled during the two years is trifling and calls for no remark.

26. The following abstract compares the produce collected and disposed of by the department with that of the previous year :—

ABSTRACT O.—Produce collected and disposed of (see Appendices 69, 70, 71 and 73-A).

Produce collected.	BALANCE BROUGHT FORWARD.	DURING 1887-88.			DURING 1888-89.		
	Quantity.	Quantity.	Cost.	Average.	Quantity.	Cost.	Average.
			RS.	RS. A. P.		RS.	RS. A. P.
Timber .. .. C. ft.	235,130	137,280	45,243	0 5 3	164,560	44,831	0 4 4
Firewood .. .. ,,	52,035	376,880	16,759	0 0 9	511,935	15,169	0 0 6
Bamboos .. .. No.	30,199	47,600	216	..	19,521	198	..
Sandalwood .. .. .. C. ft.	853	1,080	1,193	1 1 8	1,417	1,411	0 15 11
Minor produce in maunds of 25 lb. each.	197	37,811	28,296	0 12 0	30,433	34,762	1 2 3
Total ..	..	..	91,707	..	..	96,371	..

Produce disposed of.	During 1887-88.			During 1888-89.			Balance carried forward.
	Quantity.	Sales.	Average.	Quantity.	Sales.	Average.	Quantity.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.	
Timber .. .. C. ft.	165,131	1,08,660	0 10 6	208,241	1,28,394	0 9 10	163,598
Firewood .. .. ,,	393,080	40,729	0 1 8	489,958	45,145	0 1 6	57,812
Bamboos .. .. No.	68,000	852	..	19,444	1,603	..	9,876
Sandalwood .. .. .. C. ft.	120	690	5 12 0	1,657	10,564	6 6 0	1,573
Minor produce in maunds of 25 lb. each.	31,629	36,439	1 2 5	34,365	67,102	1 15 3	2,447
Total ..	..	1,87,370	..	..	2,52,808	..	..

The most satisfactory feature in the year's operations under this head is that, besides the marked improvement in revenue under all sub-heads (without a proportionate increase under expenditure) as compared with the previous year's figures, the net results were even more favorable than those provided for in the revised budget estimate for the year as may be seen from the following figures:—

——	Receipts.	Expenditure.	Surplus.
	Rs.	Rs.	Rs.
As per revised budget	2,53,165	1,09,995	1,43,170
Actuals as per Form No. 64 ..	2,48,244	96,371	1,51,873
Difference ..	— 4,921	— 13,624	+ 8,703

The rates for collecting timber, firewood and sandalwood were lower and for minor produce higher than last year, the latter being due to the collection of large crops of wild mace and cinnamon flowers in South Canara. The mace crop is the first large crop for several years, and the cinnamon crop was unusually large.

The reduction in the average cost of collecting timber and firewood and the reduction in the average selling prices are probably due to some extent to more systematic working of forests by contractors under departmental supervision, the contractor agreeing to fell the yearly coupes and buy the produce. Improved communications have also, it is hoped, tended towards a reduction of both cost and prices.

There were no indents during the year from the Department of Public Works either for timber or firewood: 1,847 tons of firewood were supplied to the South Indian Railway Company.

The value of stock balance in depôts (Appendix 73-A) was Rs. 52,290 as against Rs. 53,780 at the commencement of the year, showing a reduction of stock balance to the amount of Rs. 1,490.

Section 2—*Removals by Purchasers* (*Appendix* 72-*A*).

27. The following abstract exhibits the removals by purchasers under permit or license, as compared with the previous year:—

Abstract P.—Produce removed by permit-holders (Appendix 72-A).

Produce.	During 1887-88.			During 1888-89.		
	Quantity.	Amount of sales.	Average.	Quantity.	Amount of sales.	Average.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber .. .. C. ft.	1,094,990	99,254	0 1 5	1,259,671	1,12,860	0 1 5
Firewood .. .. .. ,,	5,989,320	1.58,623	0 0 5	7,766,040	1,77,363	0 0 5
Bamboos .. .. .. No.	5,441,200	76,545	0 0 3	6,175,415	80,314	0 0 2
Grass and grazing	..	45,918	0 0 0	..	52,331	0 0 0
Minor produce in maunds of 25 lb. each	2,318,848	2,24,222	0 1 7	1,349,555	2,12,297	0 2 6
Total ..	..	6,04,562	..	..	6,35,165	..

The actual revenue realized during the year is Rs. 19,180 in excess of the revised budget estimate and Rs. 26,850 more than the previous year's actuals. Compared with last year, about 15 per cent. more of timber, 29 per cent. more of firewood and 13 per cent. more of bamboos were removed during the year, while the sale rates remained almost the same except in regard to minor produce. This indicates that there was no additional taxation. The reduction of over 40 per cent. in the quantity of minor produce is merely nominal and is due to the farming or leasing out of minor produce collections under the contract or auction system having been more largely resorted to during the year. Under this system, quantities collected are not ascertainable. Hence the discrepancy between quantities and rates.

The increase under grazing has been explained in the previous chapter.

11,315 tons of firewood were supplied to railways under this head.

Confiscated Produce (see Appendix 72-B).

28. The confiscations during the year as compared with the year before were as follows :—

ABSTRACT Q.—Confiscation (see Appendix 72-B).

	During 1887-88.			During 1888-89.		
	Quantity.	Amount realised.	Average.	Quantity.	Amount. realised.	Average.
		RS.			RS.	
Timber .. .. .. C. ft.	13,450	..	..	7,141	..	..
Firewood .. .. .. ,,	9,720	..	..	13,760	..	..
Bamboos .. .. .. No.	5,600	..	..	8,000	..	..
Minor produce in maunds of 25 lb. each	5,824	..	..	3,942	..	..
Total ..	..	3,054	..	..	3,733	..

Section 3—Free Grants of Forest Produce.

29. The following exhibits the free grants, made by Forest officers and their value as compared with the last year :—

ABSTRACT R.—Free grants.

Districts.	Timber.	Firewood.	Bamboos.	Minor produce in maunds of 25 lb.	Money value.
	C. FT.	C. FT.	NO.		RS.
Chingleput	150	..	200	896	20
North Arcot	4,500	..	12,354	..	746
South Arcot	1,363	640	..	..	105
Salem	988	..	4,400	..	300
Madura	153	..	200	..	21
South Canara	670	..	..	..	188
Total ..	7,824	640	17,154	896	1,380
Free grants last year ..	50,360	4,520	113,800	9,856	7,272

The tendency of settlement will be more restrictions in reserves, and more license in unreserved lands; but it is difficult to estimate the amount of the concessions. It is mentioned in the North Coimbatore report that arrangements have been made for the free supply of agricultural and domestic requirements to hill villagers and to villagers at the base of the hills; and it is estimated by the District Forest Officer of South Canara that 30,000 cubic feet of the wood of reserved trees were cut in kumaki land. Permits are required only for these trees; and the proportion of unreserved wood must have been very large.

CHAPTER VI.

Financial Results.

30. The revenue and expenditure of the Circle according to Appendix No. 64 compare with the actuals of four previous years, and with the revised estimate of the year under report as follows :—

Abstract S.—Cash results from 1884-85.

Items.	For 1884-85.	For 1885-86.	For 1886-87.	For 1887-88.	For 1888-89.	Revised estimate for 1888-89.	The year under report compared with the previous year.	The year under report compared with the revised estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	6,25,492	6,52,318	6,94,535	8,10,197	8,98,086	8,77,000	+ 87,889	+ 21,086
Expenditure.								
A. Conservancy and Works.	2,09,344	2,34,006	3,80,192	3,45,742	4,08,269	4,20,200	+ 62,527	— 11,931
B. Establishments.	2,87,579	3,00,608	3,40,529	3,28,981	3,33,863	3,31,000	+ 4,882	+ 2,863
Total expenditure.	4,96,923	5,34,614	7,20,721	6,74,723	7,42,132	7,51,200	+1,67,409	— 9,068
Net results ..	+1,28,569	+ 1,17,704	— 26,186	+ 1,35,474	+ 1,55,954	+ 1,25,800	..	..

The revenue has continued to rise and there was a surplus of Rs. 20,480 more than that of the previous year, notwithstanding the large expenditure during the year of about one lakh of rupees on capital account in connection with the survey of forest reserves and tramways. The revenue and expenditure during the year rose by about 10 per cent. as compared with the previous year. The revenue was about 2 per cent. more and expenditure 1 per cent. less than the revised estimate which is satisfactory.

Towards the cash surplus shewn, Salem contributed 46 per cent., North Arcot, 29 and North Coimbatore, 22.

31. To arrive at a fair conclusion about the working results of the year, the following items may be added to the cash surplus of ... ... Rs. 1,55,954

The expenditure on live stock, stores, tools, plant and buildings (Form 73-*b*)	,,	67,074
The expenditure on Settlement establishment, (B charges)	,,	22,766
Do. on demarcation (VIII-*a*)	,,	16,191
Do. on acquisition of lands and right (VIII-*b*)	,,	1,411
Do. on surveys (VIII-*c*)	,,	45,198
Do. on law charges (IX-*b*)	,,	1,580
Increase in outstanding revenue (Form No. 66) ...	,,	8,921
Decrease in outstanding advance (Form No. 65) ...	,,	3,334
Total ...		3,22,429

And deduct—

Decrease in value of depôt stock (Form No. 73-A) ...		1,490

which leaves a balance of Rs. 3,20,939 in favor of the ordinary working account for the year as compared with a similar balance of Rs. 2,23,993 in the previous year.

CHAPTER VII.

General Remarks.

32. *Forest School.*—The two students (Foresters Tapp and Surappaiyar) of the batch sent in 1886-87 had returned in July 1888 with Ranger's certificate. The three Foresters (Messrs. Ryan, Mascurenhas and Soobramanya Aiyar) deputed to the school in 1887-88 also obtained Ranger's certificate but returned in April 1889. All these Foresters were promoted to the Ranger's class on arrival, excepting Mr. Ryan who has yet to pass the hand-writing test.

During the year under report a probationary Sub-Assistant Conservator (Mr. Woutersz) and two Rangers (Messrs. Thomson and Rama Rao) were deputed, but Mr. Woutersz was sent back because the Doctor there stated that the climate would affect his lungs.

33. *Conduct of the establishment.*—The services of two Rangers on probation were dispensed with as they failed to pass the departmental tests and were otherwise found unsuitable. One Ranger was placed under suspension for three months for having borrowed money from villagers within his jurisdiction; another was reduced two steps in his grade for carelessness; while a third was under suspension at the close of the year pending investigation of the charges against him. The services of a Forester on probation were also dispensed with and two others suspended for misconduct and neglect of duty.

34. *Health of establishment.*—One superior officer (Mr. Wooldridge) died, and a special report explaining cause of death, &c., was sent in—*vide* Board's Proceedings, dated 4th March 1889, Forest No. 163, Mis.

The health of the subordinate establishment was poor as usual. Fever was prevalent in all districts except Chingleput, South Arcot, Tanjore and Madura. In North Arcot, two Forest Guards died at the foot of the Javadis, one Ranger and two Foresters were laid up with fever more or less all the year round. In South Arcot, one Forest Guard died of cholera. In Salem, two Foresters died and the health of the rest of the establishment was indifferent. In Trichinopoly, the District Forest Officer, a few Range-officers, guards and watchers were laid up with malarious fever, and one tannahdar died of cholera. In North Coimbatore, one Ranger died of fever and several Forest Guards, clerks and peons were laid up with it for periods varying from 1 to 4 months. In South Coimbatore, there was much sickness at Tunakadavu. One depôt-keeper, one mahout and two office peons died from the effects of fever. The whole of the subordinate establishment except guards selected from jungle tribes suffered more or less from fever, owing to the partial failure of both the monsoons. In Madura, two Forest Guards died. In Tinnevelly, there was cholera on the Pápanásam hills, besides fever from which the establishment suffered severely. In North Malabar, fever and dysentery was very prevalent. In South Malabar, all suffered from fever as usual.

35. *Service Books.*—A system of annual verification of service registers was initiated during the year under the orders of Government, and out of a total of 652 employés (subordinates) in this Circle, the services of 439 men were verified, leaving 213 to be done during the current year.

36. *Wild Elephants.*—These are found to be largely increasing on the Animalais in South Coimbatore. They are said to be stationary on the hills. A large female and young bull calf were killed in July in the leased forest by a tree falling on them: this fact has been verified.

In North Malabar (Wynaad) one elephant was captured in an elephant pit-fall, and is doing well and is nearly trained; another elephant was captured in a bison pit-fall, and is also doing well and has been trained.

APPENDIX.

Details of Experiments with Exotics during and up to the close of the official year 1888-89.

Dates.—Of the date palms raised from seeds specially imported from Busrah in 1886, there are 91 plants (9 feet apart) in North Arcot, measuring from 9 inches to 2 feet high and doing well, 126 in South Arcot, all of which are reported to be thriving, except those in Tiruvannámalai, and 311 in Nilambúr, South Malabar, averaging from 9 to 22 inches in height.

The experiment with the bazaar date fruits has been continued on a moderate scale. The following table will exhibit the year's operations:—

District.	Quantity of seed supplied from west.	Locality where sown.	Remarks regarding germination.	Other remarks.
Chingleput ..	5 lb.	Homes' garden at Saidápet.	165 seeds germinated.	The plants are from 1 to 9 inches high and are said to be flourishing.
North Coimbatore.	6 ,, ...	.. ..	Most of the seed germinated within 6 weeks.	Average height of plants being 5 to 6 inches.
Trichinopoly ..	900 seeds ..	Manatattai and Elamanúr in the Cauvery padugais.	9 per cent. germinated.	127 plants were transplanted at Kulitalai, of which nearly one-half died.
..	800 ,, ..	Pachamalais ..	50 per cent. do. ..	About half the number of seedlings perished in the nursery, probably from over-watering.
..	127 ,, ..	Office compound at Turaiyúr.	85 do. do. ..	....
North Malabar..	A large quantity.	Wynaad	90 do. do. ..	Seedlings grow well, but more than half was destroyed by white-ants.

The plants raised in 1887-88 by the District Forest Officer, Chingleput, from the seed of fruits purchased at the Madras Agri-Horticultural Show, have been transplanted and are doing well.

The inquiry instituted with reference to the date palms which Mr. Morgan reported last year to have planted some years ago in Trichinopoly and North Coimbatore, resulted in the discovery that they do not now exist there.

Some fresh seeds of different kinds of the Persian and Egyptian date palm were received towards the close of the year from the Director, Botanical Department, Saharanpúr, and distributed to eight districts.

In Chingleput, 25 tolas of Persian date-seeds were sown, of which 20 germinated after thirty days and the seedlings look healthy. The remaining seeds have not yet germinated. Two seeds of each of the Egyptian variety also germinated and the seedlings are doing well. The seeds sent to South Arcot are reported to have successfully germinated. They were sown in small pots, 6 inches high, to facilitate transplanting, and 90 per cent. germinated. In Nilambúr also the seeds were put down in pots and have, without exception, germinated. The result of the sowing in the other districts is awaited and will find place in the report for 1889-90.

Date off-sets.—The following table exhibits the experiments with the date off-sets obtained from Busrah in 1886-87 and the result, as far as can be gathered from the available data, is not discouraging:—

District.	Number received and put down in 1886-87.	Number of casualties in 1886-87.	Number of casualties in 1887-88.	Number of casualties during 1888-89.	Number existing at the close of 1888-89.	Percentage of casualties during 3 years.	Remarks.
Chingleput ..	113	4	32	12	65	42	(*a*)
North Arcot ..	100	5	2	..	93	7	(*b*)
South Arcot ..	100	5	..	..	95	5	(*c*)
Trichinopoly ..	124	4	4	6	110	11	(*d*)
Tinnevelly ..	74	..	43	..	31	58	(*e*)
Malabar (Wynaad) ..	6	..	1	..	5	17	(*f*)

(*a*) Doing well and looking healthy. The twelve that perished during the year were killed by insects boring through the stem of the seedling. Some of the insects were collected and sent to the Director, Forest School, at the instance of the Conservator.

(*b*) All the plants have made good growth and most of them have thrown out off-sets which will shortly be separated and planted by themselves.

(*c*) No report from District Forest Officer.

(*d*) Thirty-two plants were removed to Pachamalais, and put out close by the village of Kenattur. Of these, six died, while the rest have established themselves and are throwing out new fronds.

(*e*) No report from District Forest Officer.

(*f*) Growth during the year not satisfactory.

In Tanjore, the 175 plants that survived the planting of 1881 in the Vettangudi forest are thriving well, and of these, four have borne fruit. The surviving nine off-sets transplanted during 1886-87 in the same forest promise good growth. Ten off-sets were planted in January 1889. They have taken root and are throwing out new shoots.

Out of the 60 date plants that remained at the close of last year in the Meltottam, west block (Vedaraniam forest), three have flowered during the year. Ten off-sets from these plants were transplanted in the Meltottam, east block, of which five died, possibly owing to excessive heat, but more probably because the plants were too old when transplanted and planted too late in the season.

Divi Divi.—In North Arcot there is about ½ an acre of this tree in Kilminnel. The plants are 4 years old and 6 or 7 feet high. They have not seeded yet. In Madura, the plants in the Navinipatti garden are doing well.

Edible Cactus.—In Tinnevelly these plants continue to do fairly well on dry sandy soil in the Tenkarai taluk. The growth, however, is very slow.

Ensilage.—Two silos were formed in the Chingleput district—one in September and the other in December 1887. The former was opened in May 1888, and the result was satisfactory. The latter was opened in July, but with unsatisfactory result, which, it is understood, is due to the delay in opening it.

The question of ensilage still appears to be in its experimental stage, and the Board issued a set of instructions for properly conducting the experiment.

Erythroxylon Coca.—In Tinnevelly these plants are doing well. Many have flowered and fruited during the year, those at an elevation of 600 feet being the most vigorous.

Eucalyptus.—With their Proceedings, dated 24th September 1888, No. 524, the Board of Revenue (in the Settlement, &c., Department) sent seeds of *Eucalyptus* to the District Forest Officers of North Arcot, South Arcot, Madura, Tinnevelly and Malabar with instructions to sow them under proper conditions in suitable places and to do their best to solve the question whether these varieties could be successfully grown on the plains. The District Forest Officer, Chingleput, also appears to have obtained some seeds through the Collector. All the District Forest Officers, excepting Madura and Tinnevelly, have reported on the experiment. The results have not been, generally speaking, satisfactory, most of the seedlings having died shortly after their appearance.

In the Chingleput district, although all the seeds sown in Homes' garden germinated, only two plants survive and are 2 and 3 inches in height. In North Arcot 21 plants, 9 to 15 inches of *Eucalyptus Globulus,* survive, but it is feared that these will also die out. Fifty seedlings of *Eucalyptus teriticornis* were transplanted in South Arcot from nursery beds into cylindrical earthen pots and put out when they attained a height of 6 to 9 inches. Only five of these survive. In Wynaad 147 plants were raised and are growing vigorously. They are 1¼ to 8½ inches high.

The *Eucalyptus* plantation near Palmanér, in North Arcot, is doing well. There are five or six varieties. Some of the *Eucalyptus Globulus* are 40 feet high. One kind grows more like a bush and has seeded for the last three years. The name of the species is not known, but the capsule is cone-shaped with a flat base about one inch diameter. The District Forest Officer will be asked to send specimens of leaves and seed for the purpose of identification.

There are two fine specimens of *Eucalyptus Globulus* over 40 feet high in a private land at Tindivanam cusbah in South Arcot. It is said that these were planted some 18 years ago by a Missionary.

In Wynaad, the five trees of *Eucalyptus saligna* have continued to flourish. No borer has appeared again and the trees seem to have entirely recovered from the attack of 1887. The dimensions of the largest of the several species are :—

	Height.	Girth.
	FEET.	FEET.
No. 1	50	2½
„ 2	42	2⅙
„ 3	35	2 1/12
„ 4	32	2

Specimens of flower of the second species and of the capsules were sent to the Government Botanist, Ootacamund, who was of opinion that this species is " probably *Eucalyptus rostrata.*" There are 20 trees of this species averaging 40 feet in height and 2¼ feet in girth at 4 feet from the ground. The trees are tall and slender and the growth fair; but they are not nearly so robust or vigorous as the five large trees which are supposed to be *Eucalyptus saligna.* There is one fine tree of the third species growing vigorously, which requires identification, but it has not flowered yet.

Fourcroya.—In Madura all the plants put out on one of the fire-lines in the Alagarmalai reserved forest are growing well.

Giant Bamboos, &c.—*Dendrocalamus Brandisii* has been a great success in Wynaad, the largest clump in the experimental garden nursery at Manantoddy growing apace. The year's shoots average 65 feet high with a circumference of 1 foot. There are besides 1,016 clumps

which have been planted out and are growing satisfactorily. These plants were raised from the last batch of seed received in 1887. The clumps average 6 feet in height, the largest being 13 feet high with an average girth of individual stems of 3½ inches.

Seven hundred plants were carted to Begúr and planted out at Cooger Hadi last June. These plants have not done so well as those put out at Manantoddy as the rain ceased immediately after they were put out and a fortnight's very hot weather intervened.

In Kanot, the six large clumps raised from cuttings, which last year averaged 20 feet in height, have made very vigorous growth this year, the annual shoot being 45 feet in height with an average girth of 11 inches. One clump died out, but 60 cuttings were made from the remaining five, of which 34 took and are growing well.

Dendrocalamus longispathus.—Three thousand plants of this species were raised during the year in Kanot from a portion of the seed obtained from Busrah and supplied from the Conservator's office. They average 2 feet in height and are growing vigorously. The old plants (4 years old), of which there are now 63 clumps, continue to flourish. The balance of the seed was sown in the seed-house at Manantoddy and in beds. Four thousand plants were raised and transplanted into nursuries at Begúr, where they now average 1 foot in height.

Cephalostachyum pergracile.—The old clumps of this species put out in 1885 continue to flourish, but the growth is slow, compared with the other two species mentioned above. There are 13 clumps now alive averaging 17 feet high with a girth of 8 inches in individual culms. From the seed sent from the Conservator's office during the year, obtained from Burmah, 3,000 plants were raised at Kanot and transplanted into nurseries. These plants average 18 inches in height and are growing well. Two thousand five hundred plants were raised at Manantoddy and transplanted into the Begúr nursery, but their growth has not been so rapid as in the case of *D. longispathus*. The plants average 10 inches high and look healthy. They have been somewhat stunted by the repeated attacks of hares at night time.

Beesha travancorica.—Of the 914 plants put out in Kanot last year, only 500 are now in existence, white-ants and cattle having destroyed the remainder. These plants are now 10 feet in height and their culms average 2½ inches in circumference. There are 100 clumps planted out in the experimental garden at Manantoddy at the same time which average 20 feet in height with a girth of 2¾ inches. These clumps are exceptionally vigorous and handsome.

Golden Burmah Bamboo.—The eight clumps of this beautiful species have grown vigorously during the year, the tallest shoots of the year averaging 30 feet with a girth of 8 inches. One clump planted in Kanot is now 20 feet high with a girth of culm 7 inches at the base.

The planting up of tukkuls (forest land cultivated by indigenous tribes) with giant bamboos in Kanot and Wynaad is being extended

In South Malabar (Nilambúr) the Burmah bamboos (*Arundinaria Brandisii* and *Dendrocalamus longispathus*) continue to grow well. The one large clump planted in 1879 now contains about 154 stems. The large yellow bamboo clump and the four cuttings raised from them are also doing well.

The seeds of *Cephalostachyum pergracile* and *Dendrocalamus longispathus* obtained from Burmah and supplied by the Conservator during the year have been sown in Panangod. The germination was fair and the seedlings will be planted next season.

In South Canara a few giant bamboo cuttings were put out along the river bank at Parappa and have established themselves. About a 100 cuttings more and a few in Uppinangadi have been raised for planting out in June.

Ipecacuanha.—The two plants in Kanot (Wynaad) have made but poor growth. Of the twenty plants planted in Nilambúr in 1884, one was pulled up by Mr. Lawson for observation and the remaining 19 look healthy and are from 17 to 33 inches high.

Five hundred plants were planted by Mr. Lawson at Ayaravillikava in July 1888. Their height varies from 6 to 9 inches.

Kigelia pinnata.—In North Arcot the *Kigelia pinnata* seed received from the Honorable Mr. Whiteside germinated well and there are now trees all over the district grown from that seed. Some of the plants in good soil are 20 feet high, but most of them are 12 to 15 feet.

Lancewood.—In Wynaad these plants were potted last year. They have made little or no growth, and only nine survive. Of the 25 planted the previous year in Nilambúr, only five remain in Valluvasheri. These look wanting in vigour and their average height is 6 inches.

Mahogany.—Of the stock of seedlings in Chingleput, 16 per cent. died during the year. The rest are reported to be doing well. Of those in North Arcot, 23 plants (3 year's old) are said to be growing well, their average height being 8 feet. The plants in South Arcot continue to look healthy.

In Trichinopoly the mahogany plants received from the Agri-Horticultural Gardens, Madras, in 1886, are from 7 to 14 feet in height and 4½ to 6 inches in girth. The plants raised from seeds received in the same year are from 2 to 7 feet in height and 1¾ to 3 inches in girth. Borers and grass-hoppers attacked the imported plants, but disappeared after a fall of rain. The District Forest Officer fears that mahogany will not do well in the district.

In Tanjore there were but two casualties during the year. The existing plants show the following growth :—

Year in which planted.	Height.	
	Maximum.	Minimum.
	FT. IN.	FT. IN.
1881	17 0	9 0
1886	10 0	2 0
1887	4 10	0 11

The experiment with mahogany in the Madura district is reported to be a decided success. The plants at Periyakulam outside the Forest office building have grown very well. Those at Vanattiparai and Tandigudi are in healthy condition, but the growth is slow. In Tinnevelly, the plants in the Kongarayakurchi and Kaliyavur reserves continue to thrive well. Some casualties have, however, been occasioned by borers and other insects.

In Wynaad, of the 198 plants reported to be alive last year in Kanot, 78 died from attacks of the borer, leaving 120 still in existence. These average a height of 4½ feet with a girth 2½ inches at base. Though healthy they are not robust. The largest of the few 6-year old plants in the teak plantation is now 25 feet high with a girth of 7 inches at the base. The District Forest Officer reports that "on the whole the mahogany has succeeded, but poorly in the Malabar district, which is mainly due to the persistent attacks of the moth, and, in a less degree, to that of borers, the larvæ of a Longicorn beetle, which is very destructive to the larger trees. The largest mahogany tree in the experimental garden which was 25 feet in height and growing more vigorously than any of the other was killed in November by the beetles. As for the balance of the mahogany plants in the garden, they look very poor and stunted, averaging 7 feet in height with a girth at the base of 4 inches. The moth has persistently attacked these unfortunate trees and there is little hope of their ever reaching any size. Kanot seems to me to offer the best field for the further prosecution of experiments with this valuable tree, as the moth is much rarer there and not so persistent in its attacks."

In South Malabar (Nilambúr) the largest mahogany tree made better advance in size during the year. The subjoined table will show the rate of growth of this tree :—

—	Height in feet.	Girth at base in inches.	Girth at 5 feet in inches.
10 years of age or at commencement of 1883-84 ..	65	42	30
11 do. do. of 1884-85 ..	67	47	34½
12 do. do. of 1885-86 ..	69	52	41
13 do. do. of 1886-87 ..	70	56	44
14 do. do. of 1887-88 ..	71	60	46
15 do. do. of 1888-89 ..	74	64	50

This tree is in Chitambarai and appears to have escaped the attack of the borer. The other plants in Ayaravillikava, Rámabis and the plantation at Panangod have suffered most severely from the attacks of the borer throughout the year.

Manilla hemp.—Of the six plants put out in 1888 in the Forest office compound in South Arcot, three bore fruit during the year. The fruit is not edible. In Tinnevelly the plants are all in a healthy condition, but have not flowered. They, however, throw offshoots which are being transplanted. In Wynaad, the plants continue to grow luxuriantly.

Olea europæa.—Twelve of these plants in Wynaad have been potted. They have made no growth, having suffered seriously from the attacks of a caterpillar which destroyed all the leaves.

Peltophorum ferruginium.—The twenty-four plants that remained in the Vettangudi forest, Tanjore district, at the commencement of the year, are in good condition. They are from 6 to 28⅔ feet high with a girth of ¾ to 1¾ feet.

Pithecolobium Saman.—This tree is now very common in the North Arcot district and goats and cattle eat away the pods as they drop. If the tree does not answer for timber or fuel, it is still an excellent shade tree; sown easily from seed or cuttings, in any soil, withstands drought and soon covers the ground under it with a thick coat of decayed leaves which greatly improve the soil. In South Arcot, there are 144 plants and they are in good condition. In Wynaad the large tree in the experimental garden swamp continues to flourish. It is now 36 feet high with a girth of 3 feet at 4 feet from the ground. The other 142 trees in the experimental garden have grown more satisfactorily during the year as their roots have got into the sub-soil.

RUBBER EXPERIMENTS—*Hevea braziliensis.*—The two trees of this species in the experimental garden at Manantoddy in Wynaad have continued to show fair growth, one tree being now 20 feet in height by 7 inches in girth, and the other 18 feet in height by 4 inches in girth. The District Forest Officer says "I do not think that any rubber trees that grow into large forest trees like the Hevea and Castilloa are fit to be tapped till they have reached maturity, that is, in their 40th or 50th year. They should be treated like *Ficus elastica.* It would be an excellent plan to make small plantations in suitable places of ¼ of an acre or so, or plant groups of trees, and scatter these groups through the ghât forests and trust to birds and animals distributing the seed."

Ficus elastica.—The largest *Ficus elastica* in the experimental garden at Manantoddy is 20 feet high with a girth of 1⅛ feet at the base. The 190 plants of this rubber planted in June 1886 now average 4 feet in height and 3 inches in girth at the base. The plants have made but poor growth, but the soil is indifferent.

The plants put out in July 1887 in Aranapoyil, in the Kanot range, average 4½ feet in height with a girth of 3 inches at the base. The growth has not been so rapid as was expected, but the plants are all healthy. There is also a small stock of young plants, about 200 in number, raised from cuttings ready for transplanting.

Six plants were planted round the serambi in the Mukki cardamom forest. The average height of these is 3¼ feet with a circumference of nearly 3 inches at the base. They look exceptionally vigorous and healthy and the locality seems to suit them.

Twelve plants were planted in the Chedlet forest at Kuppadi in open grass land. They have grown splendidly considering the situation which is very exposed. The largest plant is 8 feet in height by 3½ inches in girth at the base. The three plants put out in the Kurichiyat forest have grown equally well and vigorously.

The Ceara.—This rubber covers a considerable area of the experimental garden at Manantoddy. The largest tree is 34 feet high with a girth of 3 feet at 4 feet from the ground. This species produces very little rubber, trees exhaustively tapped yielding only an ounce or two at the most. Rats, pigs and porcupines find the tuberous roots most tempting and do great damage in consequence. The seeds contain much oil and are shed in great abundance. The nurseries contain a fair stock of young plants.

Landolphia florida.—The 35 plants received from the Agri-Horticultural Society, Madras, in April 1888, were at once planted at Ayaravillikava (Nilambúr). Their average height is one foot.

All the different kinds of rubber trees in Nilambúr continue to be doing well.

Sappan wood (*Cæsalpinia sappan*).—Two thousand plants of this valuable dyewood are still alive in Wynaad. These are the plantings of 1886 in Kanot. They average 1½ feet in height with a girth of 1 inch at the base. 5½ lbs. of seed were sown in beds at Kanot and germinated freely. Eighty-two seeds were sown in tukkuls and the greater portion of the seed germinated well, the plants now averaging 9 inches in height. Five-hundred plants were lifted from the nursery to supply failures in tukkuls. These transplants have done better than seedlings raised *in situ.*

Silk.—A special officer (Forest Ranger Mr. N. M. Rego) was appointed to arrange for the collection of Tassar silk cocoons in the jungles and the rearing of worms by jungle tribes. His operations were confined to the Chingleput district. His report on the subject is now before the Board, in the Department of Settlement and Records and Agriculture.

The District Forest Officer, Salem, supplied a few silk cocoons during the year to Mr. Hamilton Holmes in Madras.

Walnuts (*Belgaum*).—There are 18 seedlings of this plant in South Arcot, and they are in a fair condition.

Annual Form No. 59-A.

Forest Department, Madras, Southern Circle.

Area of Reserved Forests, 1888-89.

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput	Saidápet	Tandrai	664	..	..	..	664	..	....	
	Chingleput	Tirukalikundram	697	..	..	..	697	..	....	
		Uragadam	540	..	..	..	540	..	....	
		Madayatúr	697	..	..	..	697	..	....	
		Vandalúr	3,207	..	..	..	3,207	..	....	
		Vallam	..	..	1,328	..	1,328	..	G.O., No. 204, dated 9th March 1888.	From 59 D. "Reserved Lands."
	Tiruvallúr	Kámbákam	14,951	..	..	..	14,951	..	....	
		Ambakam	5,259	..	..	..	5,259	..	....	
		Sativédu	6,859	..	..	..	6,859	..	....	
		Aradúr	2,680	..	..	..	2,680	..	....	
		Kadúr	2,494	..	..	..	2,494	..	....	
		Ugumudi	2,884	..	..	10	2,874	..	G.O., No. 2399, dated 23rd April 1888.	Correction.
		Nágalápuram	8,345	..	..	..	8,345	..	....	
		Allikuli	5,649	..	..	..	5,649	..	....	
		Alamadi	1,263	..	..	..	1,263	..	....	
		Pulrambakam	..	..	577	..	577	..	G.O., No. 355, Revenue, dated 18th May 1888.	From 59 D. "Reserved Lands."
		Vembédu	..	..	1,075	..	1,075	..		
		Total	56,189	87·80	2,980	10	59,159	92·44		
North Arcot.	Vellore, Pólúr	Carnatic Ghúr	7,069·17	..	..	..	7,069·17	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated and surveyed.
		Ammerdi plantation	25	..	..	..	25	..		Demarcated and fenced.
		Ambúr fuel reserve	3,840	..	..	..	3,840	..		Demarcated and surveyed.
		Palamadi	6,400	..	..	..	6,400	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated.
		Ambúr plantation	5	..	..	..	5	..	No. 241, F.S.G.G., dated 8th December 1884.	Demarcated and fenced.
		Tellai	..	..	15,121·01	..	15,121·01	..	No. 178, F.S.G.G., 3rd July 1888.	Demarcated and surveyed. Transferred from 59 D.
	Chandragiri	Napier reserve	8,772	..	..	..	8,772	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated, fenced and surveyed.
		Mamandúr do.	1,776	..	..	..	1,776	..		

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*cont.*	Chandragiri—*cont.*	Chamala reserve	9,600				9,600		No. 158, F.S.G.G., dated 16th June 1885.	Demarcated.
		Panapak do.	6,400				6,400			
		Podipatla Bail	2,560				2,560			
		Gazerlamandiyam	250				250			Partly surveyed and fenced.
		Paradarámí	15,241·83			* 198·95	15,042·88		Nos. 331 and 332, F.S.G.G., dated 18th December 1888.	Demarcated and surveyed.
	Palmanér and Gudiyátam.	Ambúr drug	5,760				5,760		No. 241, F.S.G.G., dated 18th December 1884.	Demarcated.
		Martana	16,000				16,000		No. 158, F.S.G.G., dated 16th June 1885.	Demarcated.
		Naikanéri	6,400				6,400			
		Musalimadugu	9,600				9,600		No. 158, F.S.G.G., dated 16th June 1885.	Demarcated.
		Basvireddipallé	10,240				10,240		No. 275, F.S.G.G., dated 2nd October 1885.	
		Peddúr	9,600				9,600		No. 158, F.S.G.G., dated 16th June 1885.	
	Palmanér	Palmanér	2				2		No. 158, F.S.G.G., dated 16th June 1885.	Fenced.
		Nagamangalám	31				31			
		Piduguvaripalle	20				20			
		Venkatagirikóta	4				4			
		Bireddipalle	4				4			
		Tiruvalam plantations	435				435			Demarcated, surveyed and fenced.
	Gudiyátam	Virinjipuram do.	260				260		No. 241, F.S.G.G., dated 18th December 1884.	Do.
		Chainúr do.	130			·02	129·98			Demarcated and fenced.
		Amundi	160				160			
		Tandrayagunta	2				2			Do.
		Punganúr	3,743·37				3,743·37		No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
		Kilminnel	150				150		No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
	Head-quarter and Arcot	Vannivedu	30				30			Demarcated and fenced.
		Arkónam Sub-Magistrate's compound.	5				5		No. 158, F.S.G.G., dated 16th June 1885.	
		Arkónam plantation	37				37			Surveyed and fenced

* Rectification of area.

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot.—*cont.*	Javadi	Puttúr	..	..	12,800	..	12,800	..	No. 179, F.S.G.G., dated 3rd July 1888.	Demarcated. Transferred from 59-D.
		Patrakad	..	..	19,200	..	19,200	..	No. 181, F.S.G.G., dated 3rd July 1888.	Do.
		Vérappanur	..	..	64,000	..	64,000	..	No. 180, F.S.G.G., dated 3rd July 1888.	Do.
	Wandiwash	Brahmakateri	..	..	635·01	..	635·01	..	No. 222, F.S.G.G., dated 31st July 1888.	Do.
		Total ...	124,552·37	194·62	111,756·02	198·97	2,36,109·42	368·92		
South Arcot.	No. I, Tiruvannámalai.	Annamalai forest	1,760	..	..	..	1,760	..	From 1st June 1885, F.S.G.G., dated 2nd June 1885.	Notified under section 25.
		Chinnasamudram	6,018·81	..	..	..	6,018·81	..	From 1st October 1887, F.S.G.G., dated 9th August 1887.	
		Mudinai	4,000·33	..	..	..	4,000·33	..		
		Perúngolatur Swamimalai	9,000	..	..	..	9,000	..		
		Anandavadi	..	..	6,000	..	6,000	..	.....	Transferred from 59-D.
		Kavutimalai	..	..	6,000·33	..	6,000·33	..	*Vide* F.S.G.G., dated 10th July 1888.	Do. do.
		Tippakodu	..	..	6,001·42	..	6,001·42	..		
		Siruvadi	3,335·31	..	..	..	3,335·31	..	From 1st December 1887, F.S.G.G., dated 11th October 1887.	
		Muttakadu	3,094·76	..	..	..	3,094·76	..		
		Karai	1,345·65	..	..	..	1,345·65	..		
		Kurumbaram second bit	150	..	..	..	150	..		
		Kilsévúr	1,207·74	..	..	..	1,207·74	..		
		Saram	251·03	..	..	..	251·03	..	From 1st February 1888, F.S.G.G., dated 20th December 1887.	
		Salavadi	70	..	..	..	70	..		
	No. II, Tindivanam	Attíkuppam	150	..	..	..	150	..		
		Akshikádu	450	..	..	..	450	..		
		Agaram	..	..	601·20	..	601·20	..	F.S.G.G., dated 10th July 1888.	Transferred from 59-D.
		Merkanam	..	..	80·60	..	80·60	..		
		Kumalampet	..	..	1,221·74	..	1,221·74	..		
		Bommatur *alias* Venmaniyatur	..	..	302·14	..	302·14	..	F.S.G.G., dated 5th February 1889.	
		Jaggampettai	..	..	300·16	..	300·16	..	F.S.G.G., dated 10th July 1888.	
	No. III, Villupuram	Gangavaram	8,740	..	..	..	8,740	..	From 1st December 1887, F.S.G.G., dated 11th Oct. 1887.	
		Total ..	39,573·63	61·83	20,507·59	..	60,081·22	93·88		

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem	Salem	Bódamalai	5,600				5,600			
		Átúr ghât	3,142				3,142			
		Kutár	3,795				3,795			
		Nartenchedu extension	1,088				1,088			
		Yérimalai	3,520				3,520			Kariyappakombai block, of 265 acres, is fire-protected.
		Pillapallikombai (new)	2,080				2,080			Pillapallikombai block, of 981 acres, is fire-protected.
		Atúr ghât extension	544				544			
		Karuvattuparai	1,800				1,800			Karuvattuparai block, of 837 acres, is fire-protected.
		Nartenchedu	2,400				2,400			
		Vaniyar	4,512				4,512			
		Manjavadi ghât	8,461				8,461			
		Ajampatti	1,920				1,920			
		Kanavoipudúr	3,200				3,200			Vadagampatti block of 1,976 acres and Kariyappakombai block, of 266 acres, are fire-protected.
		Lókúr	5,312				5,312			Morúr block of 799 acres and Ammaneri block, of 252 acres, are fire-protected.
		Kanjéri, new	4,032				4,032			Kanjéri block of 1,929 acres and Pannikaradu block, of 1,323 acres, are fire-protected.
		Pannikaradu (new)	4,832				4,832			Pannikaradu block of 1,322 acres, is fire-protected.
		Mallápuram	589				589			Mallápuram block, of 587 acres, is fire-protected.
	Atúr	Bélúr	6,880				6,880			
		Nagúr	3,757				3,757			
		Varagúr	2,675				2,675			
		Nayakenkombai	2,880				2,880			

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Salem—*cont.*	Námakal	Jambútu	2,617	..	..	..	2,617	..	....	
		Puliyan Shola	5,530	..	..	..	5,530	..	....	
	Atúr and Námakal ..	Karavillikombai	8,755	..	..	..	8,755	..	....	
		Pilapadi	8,000	..	..	..	8,000	..	....	
		Tumbakal	7,757	..	..	..	7,757	..	....	
		Chitteri	3,917	..	..	..	3,917	..	....	
		Kottapatti	8,960	..	..	..	8,960	..	....	
	Uttankarai	Puvampatti	4,672	..	..	..	4,672	..	....	
		Chittilingi	6,880	..	..	..	6,880	..	....	
		Singárapet	2,624	..	..	..	2,624	..	....	Singarapet block, of 2,624 acres, is fire-protected.
		Mallápuram extension ..	..	..	400	..	400	..	No. 23, F.S.G.G., dated 29th January 1889.	Transferred from 59-D.
		Mangalam	6,080	..	..	..	6,080	..	....	
		Nagalatu	2,560	..	..	..	2,560	..	....	Kotúr block, of 1,213 acres, is fire-protected.
	Tirupatúr	Mambakam	9,370	..	..	..	9,370	..	....	
		Pánkulam	7,834	..	..	..	7,834	..	....	
		Madakadapa	2,048	..	..	..	2,048	..	....	
		Jalárpet	1,216	..	..	..	1,216	..	....	
		Narasingapuram	2,048	..	..	..	2,048	..	....	
		Kalarapatti	2,016	..	..	..	2,016	..	....	
		Alangayam	11,520	..	..	..	11,520	..	....	
	Tirupatúr and Úttankarai.	Singarapet extension ..	7,398	..	..	..	7,398	..	....	
		Aiyúr	5,952	..	..	..	5,952	..	....	Mailgiri block, of 5,461 acres, is fire-protected.
		Marandahalli	5,824	..	..	..	5,824	..	....	
		Gulhatti (new)	7,942	..	..	..	7,942	..	....	Gulhatti block of 3,248 acres and Kanavoikottapalli block, of 371 acres, are fire-protected.
	Hosúr	Manchi (new)	5,632	..	..	..	5,632	..	....	Manchi block of 3,305 acres, is fire-protected.
		Toluvabetta	6,918	..	..	..	6,918	..	....	Kanavanagasundram block of 416 acres and Kanavoikottapalli block of 371 acres are fire-protected.

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Hosúr—*cont.*	Anchetti	8,832	..	..	..	8,832	..	....	
		Natrapalaiyam	10,880	..	..	..	10,880	..	....	
		Biligundla	14,272	..	..	..	14,272	..	....	
		Kestúr	11,616	..	..	..	11,616	..	....	
		Bilikal	11,136	..	..	..	11,136	..	....	
		Malahalli	8,928	..	..	..	8,928	..	....	
		Taggatti	10,432	..	..	..	10,432	..	....	
		Javalagiri	6,016	..	..	..	6,016	..	....	
		Talli	6,368	..	..	..	6,368	..	....	
		Denkanikóta	2,816	..	..	..	2,816	..	....	
		Naganúr	..	..	3,200	..	3,200	..	No. 182 F.S.G.G., dated 3rd July 1888.	Transferred from 59-D.
	Dharmapuri	Pennagaram	10,304	..	..	..	10,304	..	....	
		Morappúr	..	..	16,640	..	16,640	..	No. 259, F.S.G.G., dated 9th October 1888.	Do.
	Hosúr and Dharmapuri.	Woddapatti	17,152	..	..	..	17,152	..	....	
	Dharmapuri and Hosúr.	Gutirayan	15,776	..	..	..	15,776	..	....	
	Krishnagiri	Bargúr (new)	1,920	..	..	..	1,920	..	....	Bargúr block, of 220 acres, is fire-protected.
		Togarapalli	901	..	..	..	901	..	....	Togarapalli block, of 499 acres, is fire-protected.
	Krishnagiri and Tirupatúr.	Kotúr	3,840	..	..	..	3,840	..	....	Pudúr block of 1,069 acres, is fire-protected.
	Trichengód	Pakkanad	..	..	4,500	..	4,500	..	No. 110, F.S.G.G., dated 17th April 1888.	Transferred from 59-D.
		Total	358,278	559·81	24,740	..	383,018	598·47		
Trichinopoly.	Trichinopoly	Tuvakudi	1,438	..	..	..	1,438	..	....	
	Kulitalai	Elamanúr	117·10	..	..	..	117·10	..	....	
		Pettuvóitalai	137	..	..	..	137	..	....	
		Kulitalai	77·18	..	..	..	77·18	..	....	
		Manattatai	44·86	..	..	..	44·86	..	....	
		Lálápet	268·20	..	..	..	268·20	..	....	
		Sitalavoi	160·32	..	..	..	160·32	..	....	
		Kattalai	74·35	..	..	..	74·35	..	....	
		Ténmalai	464	..	..	..	464	..	....	
		Minnakarudu	98	..	..	..	98	..	....	
		Panjantangi	1,543	..	..	..	1,543	..	....	

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Kulitalai—*cont.*	Viramalai hills	2,000	..	3,471·98	..	5,471·98	..	....	Ascertained by traverse.
		Royapatti hills	639	..	..	..	639	..	....	
		No. I Shemmalai	1,800	..	676·56	..	2,476·56	..	....	Do.
		Pakkirikaradu	65	..	..	..	65	..	....	
		Puttanatam range comprising Kuramalai, Palamalai and Nadumalai	798	..	..	92·75	705·25	..	....	Do.
		Surpam range	1,765	..	..	362·05	1,402·95	..	....	Do.
		Madalamalai	..	..	465·25	..	465·25	..	No. 151, F.S.G.G., dated 5th June 1888.	Transferred from 59-D.
	Musiri	Sengattupatti	3,000	..	..	..	3,000	..	....	
		Melúr	3,000	..	..	..	3,000	..	....	
		Kaliammankovil tittu	..	..	1,500	..	1,500	..	No. 271, F.S.G.G., dated 25th September 1888.	Do.
		Karuppankadu tittu	..	..	2,000	..	2,000	..	No. 239, F.S.G.G., dated 21st August 1888.	Do.
		Kanapadi, Kanniamman Solai.	..	..	2,560	..	2,560	..	No. 167, F.S.G.G., dated 19th June 1888.	Do.
		Kanapadi, Temparanad	..	..	12,000	..	12,000	..	No. 262, F.S.G.G., dated 25th September 1888.	Do.
		Palamalai	..	..	10,000	..	10,000	..	No. 240, F.S.G.G., dated 21st August 1888.	Do.
	Perambalúr	Manalodai	4,000	..	..	..	4,000	..	....	
		Salamatti	7,000	..	..	..	7,000	..	....	
		Selayur	..	..	1,600	..	1,600	..	No. 158, F.S.G.G., dated 5th June 1888.	Do.
		Puliyur	..	..	10,000	..	10,000	..	No. 166, F.S.G.G., dated 19th June 1888.	Do.
		Semmalai	..	..	5,000	..	5,000	..	No. 165, F.S.G.G., dated 19th June 1888.	Do.
		Sengattur	..	..	10,000	..	10,000	..	No. 247, F.S.G.G., dated 4th September 1888.	Do.
		Total	28,489·01	44·51	59,273·79	454·80	87,308	136·42		
Tanjore	Southern Range	Me'tottam Eastern block	10	..	..	..	10	..		
		Do. Western block	8	..	..	..	8	..		
		Manankadu	..	..	120	..	120	..	Declared under section 16 of the Madras Forest Act, *vide* G.O., dated 4th August 1888, No. 535.	Do.
		Talanayar	..	..	2,000	..	2,000	..		
		Tillavilagam	..	..	320	..	320	..		

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Tanjore —*cont.*	Southern Range—*cont.*	Nadur No. II	..	..	200	..	200	..	Declared under section 16 of the Madras Forest Act, *vide* G.O., No. 661, dated 17th September 1888.	Transferred from 59-D.
		Tachankurchi	..	..	320	..	320	..		
		Viralipatti Northern block	..	..	145	..	145	..		
		Do. Southern do.	..	..	234	..	234	..		
		Kallupatti	..	..	85	..	85	..		
		Kollankarai	..	..	458	..	458	..		
		Puthur No. I	..	..	191	..	191	..		
		Do. ,, II	..	..	119	..	119	..	Declared under section 16 of the Madras Forest Act, *vide* G.O., No. 492, dated 18th July 1888.	
	Northern Range	Northern Casuarina	..	..	350	..	350	..		
		Southern do.	..	..	250	..	250	..		
		Neduvasal	..	..	42	..	42	..		
		Total	18	·03	4,834	..	4,852	7·58		
North Coimbatore.	Kollegál	Jadatalahulla	361·01	..	..	..	361·01	..	....	The Sandalwood reserves are demarcated, surveyed and mapped. These four tracts will be merged in larger areas of reserved forests in 1889-90.
		Udayárpálaiyam	296·63	..	..	..	296·63	..	....	
		Bailúr	1,186·39	..	..	..	1,186·39	..	....	
	Satyamangalam	Germalam	519·78	..	..	..	519·78	..	....	
		Vellamundi	12,800	..	..	..	12,800	..	....	
		Eastern slopes of Nílgiris.	48,000	..	*12,800	..	60,800	..	....	* Rectification of area by Survey.
		Total	63,163·81	·98·69	12,800	..	75,963·81	118·69		
South Coimbatore.	Tunakadavu	Anaimalais No. I	52,480	..	..	..	52,480	..	....	
	Ponachi	Do. ,, II	3,140	..	..	..	3,140	..	....	
	Udamalpet	Do. ,, III	47,360	..	..	..	47,360	..	....	
	Polláchi and Udamalpet.	Anaimalais	133,120	..	..	..	133,120	..	....	
	Bolampatti	Bolampatti block No. I	47,680	..	..	..	47,680	..	....	
		Do. ,, II								
		Do. ,, III								
		Tadágam block ,, IV	30,720	..	..	..	30,720	..	....	
	Mettupálaiyam	Gopaneri block ,, V	38,200	..	..	..	38,200	..	....	
		Kempampalaiyam ,, VI								
		Nellitorai ,, VII								
		Odantorai ,, VIII	5,880	..	..	..	5,880	..	....	
		Modúr block ,, IX	3,600	..	..	..	3,600	..	....	
		Total	362,180	565·91	..	..	362,180	565·91		

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura	No. I Uttamapalaiyam.	Vannatiparai	27,481·6	..	..	..	27,481·6	..	....	
		Suranganar	3,616	..	..	..	3,616	..	....	
		Mela Gudalur	1,280	..	..	..	1,280	..	....	
		Machakal	2,560	..	..	..	2,560	..	....	
		Kutinachiyar	640	..	..	..	640	..	....	
		Pandaratorai	300	..	..	..	300	..	....	
		Tambirankanal	250	..	..	..	250	..	....	
		Surulipati	5,760	..	..	..	5,760	..	....	
		Jungle Conservancy.								
		Veerapandi	2	..	..	2	..	..	G.O., dated 15th Dec. 1888, No. 868.	
		Tamaraiktulam	1	..	..	1	..	..		
		Allinagaram	2	..	..	2	..	..		
		Melmangalam	1·5	..	..	1·5	..	..		
		Mottanutu	2	..	..	2	..	..		
		Vadipatti	1	..	..	1	..	..		
		Pambar	4,755·2	..	..	..	4,755·2	..	....	
		Sengalvarai Ar	5,209·6	..	..	..	5,209·6	..	....	
		Pumbarai Vilpatti Valley	13,587·2	..	..	..	13,587·2	..	....	
		Kudirai Ar	10,060·8	..	..	..	10,060·8	..	....	
		Kukkal	9,644·8	..	..	..	9,644·8	..	....	
		Marudanadiyar	6,528	..	..	..	6,528	..	....	
		Pambúkal Ar	800	..	..	..	800	..	....	
		Siruvattukádu	2,279·2	..	..	..	2,279·2	..	....	
		Kaniyankádu	3,001·6	..	..	..	3,001·6	..	....	
		Vennilai	4,800	..	..	..	4,800	..	....	
		Ariyánutukánal	64	..	..	..	64	..	....	
		Kumangovaimalai kádu	80	..	..	..	80	..	....	
	No. II, Kodaikánal.	Peteraṇkánal	80	..	..	..	80	..	....	
		Varattarkanal	200	..	..	..	200	..	....	
		Iruttarkanal	100	..	..	..	100	..	....	
		Nochiárkádu	200	..	..	..	200	..	....	
		Talaiar Andarkoil kádu	30	..	..	..	30	..	....	
		Talaiar kádu	150	..	..	..	150	..	....	
		Kadamaravu	50	..	..	..	50	..	....	
		Vilamkombai	1,600	..	..	..	1,600	..	....	
		Parappár	42	..	..	42	..	..	G.O., dated 15th December 1888, No. 868.	
		Kadugutadikádu	1,280	..	..	..	1,280	..	....	
		Oliyanútodai	3,200	..	..	..	3,200	..	....	

Area of Reserved Forests, 1888-89—*cont.*

District	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. II, Kodaikánal—*cont.*	*Jungle Conservancy*—cont.								
		Sholas on the Lower Palnis—								
		(*a*) Perumalmalai shola								
		(*b*) Togavarai shola								
		(*c*) Sirutarkanal								
		(*d*) Arankanal								
		(*e*) Kadavu shola								
		Sholas on the Upper Palnis—								
		(*a*) Tiger shola								
		(*b*) Parappar shola	2,316				2,316			
		(*c*) Kodaikánal								
		(*d*) Pannitutamkanal								
		(*e*) Gunden and Manavan sholas.								
		(*f*) Gunden shola								
		(*g*) Sandanam shola								
		(*h*) Fort Hamilton								
		(*i*) Mariyan shola								
		Plantations.								
		Eucalyptus	16·62				16·62			
		Acacia	·14			14			G.O., dated 15th Dec. 1888, No. 868.	
		Velamkombai	54·14				54·14			
		Ganguvampatti	4			4				
		Kodaikánal Settlement	3			3				
		Pumbarai	6				6			
		Virupatchi	7·15			7·15			G.O., dated 15th December 1888, No. 868.	
		Sivagiripatti	1·15			1·15				
		Amburivi			3,840		3,840		G.O., dated 11th December 1888, No 250. Notified in F.S.G.G., dated 17th April 1889.	Transferred from 59. D.
		Perumalmalai			12,800		12,800		Notified in F.S.G.G., dated 18th September 1888.	
	No. III, Dindigul	Sirumalai	25,529·6				25,529·6			
		Mudimalai	6,086·4				6,086·4			
		Akkammakaradu	1,600				1,600			
		Kappuravalikuttu	2,560				2,560			

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. III, Dindigul—*cont.*	*Plantation*—cont.								
		Tenkal	3,200				3,200			
		Sundamalai	2,240				2,240			
		Tannirkaradu	1,920				1,920			
		Kadavakurchi	5,120				5,120			
		Sengattampatti	4,480				4,480			
		Dindigul at the junction of Trichinopoly and Karur roads.	1			1				
		Dindigul Munsif's Court	·59			·59				
		Do. race-course	4			4			G.O., dated 15th December 1888, No. 868.	
		Kovilur	1·19			1·19				
			·15			·15				
		Gudalur	1·18			1·18				
		Guvakapatti	130·52			† 130·52				
	No. IV, Errampatti	Nagamalai	2,356			†2,356				
		Alagarmalai	13,036		* 4,474·24		17,510·24			* Rectification of area by survey.
	No. V, Alagar Hill	*Jungle Conservancy.*								† Transferred to 59 F.
		Mudugamalai								
		Yellamalai	2,700			†2,700				
		Perumalmalai								
		Pillayarnattam Hills							Do.	
		Tenappudupettai	126·78			† 126·8				
		Sakimangalam	467·94			† 467·94				
		Vikramangalam	10,240				10,240			
		Tenur	11·78			11·78				
		Tovarimán	21			21			Do.	
		Navinipatti	12			12				
		Total	193,907·69	302·98	21,114·24	5,914·93	2,09,107·00	326·74		
Tinnevelly	Nángunéri	Reserve No. I	31,532·80				31,532·80			
	Ambásamudram	Do. ,, II	91,008				91,008			
	Tenkási	Do. ,, III	18,009·60				18,009·60			
	Sankaranainárkoil	Do. ,, IV	19,737·60				19,787·60			
	Srivilliputur	Do. ,, V	23,270·40				23,270·40			
		Total	183,558·40	286·81			183,558·40	286·81		

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
		Ernád Táluk.								
North Malabar.	Chedlet reserved forest.	Kuppadi block	7,337·44	..	..	..	7,337·44	..		
		Kurchiyat ,,	18,053·86	..	..	..	18,053·86	..		
		Rampúr ,,	18,854·67	..	..	..	18,854·67	..		
	Trans Beni	Nulpoya	3,613·28	..	..	..	3,613·28	..		
		Mavanhulla	12,576·64	..	..	..	12,576·64	..		
		Begur reserved forest	15,366	..	..	..	15,366	..		
		Total	75,801·89	118·44	..	..	75,801·89	118·44		
South Malabar.	Nilambúr	Karimpoya reserve	3,955·28	..	..	..	3,955·28	..		
		Amarampalaiyam ,,	468·04	..	..	..	468·04	..		
		Chatambarai ,,	699·52	..	..	..	699·52	..		
		Nellikutta ,,	1,824·13	..	..	..	1,824·13	..		
	Pálghat	Walayár ,,	3,017·00	..	..	..	3,017·00	..		
		Chenat Nair ,,	15,203·00	..	..	..	15,203·00	..		
		Total	25,166·97	39·32	..	..	25,166·97	39·32		
South Canara.	Kondapur	No. I, Sabladi	208	..	..	..	208	..		
	Udipi	,, II, Ajjárkad	160	..	..	..	160	..		
		,, III, Pillarkhan	320	..	..	..	320	..		
		,, VIII, Chinkramalle	..	..	2,560	..	2,560	..	G.O. No. 64-F., dated 14th June 1888.	Transferred from 59 D.
		,, VI, Mannajikadu	..	..	422·73	..	422·73	..	G.O., No. 44-F., dated 22nd May 1888.	Do. do.
	Mangalore	,, VI, Chembugudi	75	..	..	..	75	..		
		,, VII, Kuttiyar	25	..	..	..	25	..		
		Nos. V and IV, Poitaji and Kayar Palla.	96	..	..	..	96	..		
		,, V, Ullal Casuarina and Honne Plantations.	..	..	57·11	..	57·11	..	G.O., No 66-F., 14th June 1888.	Do. do.
		,, X, Tannirbavi	..	..	69·99	..	69·99	..	G.O., No. 362, dated 22nd May 1888.	Do. do.
		,, XII, Hosabetta	..	..	376·01	..	376·01	..	G.O., No. 79, dated 20th July 1888.	Do. do.
	Uppinangadi	The Siradisisla reserve	19,200	..	..	..	19,200	..		
		The Bhagimalai	6,400	..	..	..	6,400	..		
		Total	26,484	41·38	3,485·84	..	29,969·84	46·82		
		Grand Total	1,537,362·77	2,402·13	261,491·48	6,578·70	1,792,275·55	2,800·44		

Abstract of Form No. 59-A.

District.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Remarks.
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.	
Chingleput	56,189	87·80	2,980	10	59,159	92·44	
North Arcot ..	124,552·37	194·62	111,756·02	198·97	236,109·42	368·92	
South Arcot ..	39,573·63	61·83	20,507·59	..	60,081·22	93·88	
Salem	358,278	559·81	24,740	..	383,018	598·47	
Trichinopoly ..	28,489·01	44·51	59,273·79	454·80	87,308	136·42	
Tanjore	·18	·03	4,834	..	4,852	7·58	
North Coimbatore ..	63,163·81	98·69	12,800	..	75,963·81	118·69	
South Coimbatore ..	362,180	565·91	..	..	362,180	565·91	
Madura	193,907·69	302·98	21,114·24	5,914·93	209,107	326·74	
Tinnevelly	183,558·40	286·81	..	..	183,558·40	286·81	
North Malabar ..	75,801·89	118·44	..	..	75,801·89	118·44	
South Malabar ..	25,166·97	39·32	..	..	25,166·97	39·32	
South Canara ..	26,484	41·38	3,485·84	..	29,969·84	46·82	
Total ..	1,637,362·77	2,402·13	261,491·48	6,576·70	1,792,275·55	2,800·44	

ANNUAL FORM No. 59-B.

Forest Department, Madras, Southern Circle.

Area of Forests, 1888-89, reserved under previous orders of Government or regarded as reserves prior to Act V of 1882.

District.	Range.	Name of forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Tiruvallúr ..	Namalúr	938	..	..	..	938	..	....	
		Kolatar	248	..	..	..	248	..	....	
		Kuvakelli	156	..	..	..	156	..	....	
		Total ..	1,342	2·10	..	..	1,342.	2·10		
North Arcot ..	....	.....	..	..	..	..	..	..	....	
South Arcot	No. I, Tiruvannámalai.	Annamalai kasba hill and neighbourhood	2,080	..	..	..	2,080	..	....	
		Tandrampet	11,500	..	..	..	11,500	..	....	
		Kadambai	1,000	..	..	..	1,000	..	....	
		Tachampet, including Attipakam..	1,000	..	..	..	1,000	..	....	
		Annamangalam	250	..	..	..	250	..	....	
		Vallanad Sevúr	1,115	..	..	..	1,115	..	....	
		Nangilikondan	50	..	..	..	50	..	....	
		Natamangalam	30	..	..	..	30	..	....	
		Vilukam	100	..	..	..	100	..	....	
		Olakúr	300	..	..	..	300	..	....	
		Roshanai	50	..	..	..	50	..	....	
		Edayalam	400	..	..	..	400	..	....	
		Eriyanúr	95	..	..	..	95	..	....	
	No. II, Tindivanam ..	Jaggampet	108	..	..	..	108	..	....	
		Senalúr	150	..	..	..	150	..	....	
		Mannúr	50	..	..	..	50	..	....	
		Nemmalai	300	..	..	..	300	..	....	
		Endúr	50	..	..	..	50	..	....	
		Bramhadésam	50	..	..	..	50	..	....	
		Vanúpper	50	..	..	..	50	..	....	
		Nadukuppam to Bramhadésam ..	400	..	..	..	400	..	....	
		Kandadu	370	..	..	..	370	..	....	
		Omapper	20	..	..	..	20	..	....	
		Mailam	265	..	..	..	265	..	....	

Area of Forests, 1888-89, reserved under previous orders of Government or regarded as reserves prior to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. III, Villupuram..	Tandavasamudram	1,000	..	..	..	1,000	..	....	
		Matúr	540	..	..	..	540	..	....	
		Turinjikádu	404	..	..	..	404	..	....	
		Odayanatam and Kadayam	1,000	..	..	..	1,000	..	....	
		Vanúr first bit	200	..	..	..	200	..	....	
		Vanúr second bit	150	..	..	..	150	..	....	
		Kalikoil	200	..	..	..	200	..	....	
		Chengadu	100	..	..	..	100	..	....	
		Mutampalaiyam	50	..	..	..	50	..	....	
		Navamal Maradúr	80	..	..	..	80	..	....	
		Aliyúr	70	..	..	..	70	..	....	
		Neliyanúr	70	..	..	..	70	..	....	
		Pakam	350	..	..	..	350	..	....	
		Sorapúr	50	..	..	..	50	..	....	
		Marudúr	70	..	..	..	70	..	....	
		Villupuram kasba tank	100	..	..	..	100	..	....	
		Kandampakam	60	..	..	..	60	..	....	
		Olaikai	50	..	..	..	50	..	....	
		Kappúr	50	..	..	..	50	..	....	
		Kondangi	100	..	..	..	100	..	....	
		Nannadu	100	..	..	..	100	..	....	
		Perumbákam	100	..	..	..	100	..	....	
		Dévanampet	100	..	..	..	100	..	....	
		Tiruvamatúr	28	..	..	..	28	..	....	
		Tennamadevi	51	..	..	..	51	..	....	
		Tangal	57	..	..	..	57	..	....	
		Siruvalai (Arumbili)	1,014	..	..	..	1,014	..	....	
		Vembi	256	..	..	..	256	..	....	
		Vikkravándi proper	150	..	..	..	150	..	....	
		Do. tangal	20	..	..	..	20	..	....	
		Saliyampalaiyam	70	..	..	..	70	..	....	
		Nemmalai	100	..	..	..	100	..	....	
		Pádavaram	200	..	..	..	200	..	....	
		Tiruvakkarái	1,000	..	..	..	1,000	..	....	
		Tuluvai	150	..	..	..	150	..	....	
	No. IV, Cuddalore ..	Selambanadampet	1	..	..	..	1	..	....	
		Badrakótai	344	..	..	..	344	..	....	
		Kanjiruppu	10	..	..	..	10	..	....	
		Veludayampattu	100	..	..	..	100	..	....	

Area of Forests, 1888-89, reserved under previous orders of Government or regarded as reserves prior to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. IV, Cuddalore—*cont.*	Kaliyankuppam	150	..	..	..	150	..	....	
		Kuttiyambakam	100	..	..	..	100	..	....	
		Siruvatúr	300	..	..	..	300	..	....	
	No. IV, Chidambaram.	Pichavaram	2,000	..	..	..	2,000	..	....	
		Ramapakam	800	..	..	..	800	..	....	
		Kondapuram	1,200	..	..	..	1,200	..	....	
		Pavanji Nallúr	200	..	..	..	200	..	....	
		Kollatankurchi	350	..	..	..	350	..	....	
		Nisangam	800	..	..	..	800	..	....	
		Adivaraganallúr	1,200	..	..	..	1,200	..	....	
		Kolakudi (east of road)	600	..	..	..	600	..	....	
		Pinnalúr (Wálajápet tank block)	400	..	..	..	400	..	....	
		Manamádévi	150	..	..	..	150	..	....	
		Viranam tank	1,500	..	..	..	1,500	..	....	
		Nattamér	9,500	..	..	4,150	5,350	..	....	Transferred to 59 D
		Chittamur	3,000	..	..	..	3,000	..	....	
		Arunávaram	2,650	..	..	..	2,650	..	....	
		Odiyatúr	2,500	..	..	..	2,500	..	....	
		Endúr	1,000	..	..	..	1,000	..	....	
		Virinjipuram and Kandachipuram.	1,500	..	..	..	1,500	..	....	
		Adukam (Tandarai)	1,500	..	..	1,500	..	..	....	Do. do.
		Atipakam	2,000	..	..	2,000	..	..	....	
		Sadakati	500	..	..	..	500	..	....	
		Swamimalai	4,000	..	..	4,000	..	..	....	Do. do.
		Maradúr	2,220	..	..	..	2,220	..	....	
		Ulandúrpet (Pandúr)	2,500	..	..	2,500	..	..	....	
	No. V, Tirukoilúr	Edakal proper (south of road)	900	..	..	900	..	..	....	
		Do. (north of road)	3,600	..	..	3,600	..	..	....	
		Alwarmalai	6,500	..	..	6,500	..	..	....	Do. do.
		Siruvakam	1,200	..	..	1,200	..	..	....	
		Kutadi	2,250	..	..	2,250	..	..	....	
		Sidévi	3,000	..	..	3,000	..	..	....	
		Kunjaram	1,500	..	..	..	1,500	..	....	
		Kallamédu	500	..	..	..	500	..	....	
		Elandorai (late Ponnavalam)	200	..	..	..	200	..	....	
		Tiruvennainullúr	40	..	..	..	40	..	....	
		Emappúr	70	..	..	..	70	..	....	
		Siruvanúr	50	..	..	..	50	..	....	
		Iruvelpet	50	..	..	..	50	..	....	
		Mélmangalam	40	..	..	..	40	..	....	

Area of Forests, 1888-89, reserved under previous orders of Government or regarded as reserves prior to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. V, Tirukoilúr—*cont.*	Mamandúr	50	..	..	..	50	..	....	
		Gramam	40	..	..	..	40	..	....	
		Elandorai tank	40	..	..	..	40	..	....	
		Panapakam	50	..	..	..	50	..	....	
		Sitilingamadam	70	..	..	..	70	..	....	
		Maradúr tank bed	60	..	..	..	60	..	....	
		Pudupalaiyam	40	..	..	..	40	..	....	
		Palayagram	65	..	..	..	65	..	....	
	No. VI, Kallakurchi	Kanakádu	1,200	..	..	..	1,200	..	....	
		Kadambúr	100	..	..	..	100	..	....	
		Kaduvanúr	1,500	..	..	..	1,500	..	....	
		Katuvananjúr	800	..	..	..	800	..	....	
		Lálápet forest, including Chittal	1,500	..	..	..	1,500	..	....	
		Vengalam Pasar	3,000	..	..	..	3,000	..	....	
		Rishivendiyam	3,000	..	..	..	3,000	..	....	
		Nilamangalam	150	..	..	..	150	..	....	
		Emaputtúr	1,000	..	..	..	1,000	..	....	
		Kolatúr	300	..	..	..	300	..	....	
		Indali	1,000	..	..	..	1,000	..	....	
		Katalamalai	2,500	..	..	..	2,500	..	....	
		Nagalúr	900	..	..	..	900	..	....	
		Porasakurchi	750	..	..	..	750	..	....	
		Varansaram	450	..	..	..	450	..	....	
		Kuttakudi	1,000	..	..	..	1,000	..	....	
		Kilnariyappanúr	1,500	..	..	..	1,500	..	....	
		Varadiyappanúr	500	..	..	..	500	..	....	
		Chinna Salem	200	..	..	..	200	..	....	
		Tottapadi	250	..	..	..	250	..	....	
	No. VII, Vriddhachalam.	Velankulam and Vennakuli	500	..	..	..	500	..	....	
		Semakotai and Palaiyapatnam	4,500	..	..	..	4,500	..	....	
		Pallipattu	1,500	..	..	..	1,500	..	....	
		Erulakurchi	300	..	..	..	300	..	....	
		Mélakuppankulam	600	..	..	..	600	..	....	
		Parúr	3,000	..	..	..	3,000	..	....	
		Narimadam	600	..	..	..	600	..	....	
		Ammeri	500	..	..	..	500	..	....	
		Kuppanatam	750	..	..	..	750	..	....	
		Satamangalam	200	..	..	..	200	..	....	
		Arasuguli	100	..	..	..	100	..	....	
		Kolapákam	600	..	..	..	600	..	....	

Area of Forests, 1888-89, reserved under previous orders of Government or regarded as reserves prior to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. VII, Vriddhachalam —*cont.*	Kammapuram	600	..	..	..	600	..	....	
		Kannangudi	2,000	..	..	..	2,000	..	....	
		Narasingamangalam	1,200	..	..	..	1,200	..	....	
		Kotanúr	2,700	..	..	..	2,700	..	....	
		Mémadúr	500	..	..	..	500	..	....	
		Pillúr	800	..	..	..	800	..	....	
		Pulambadi	2,000	..	..	..	2,000	..	....	
		Alambalam	2,000	..	..	..	2,000	..	....	
		Aderi	1,000	..	..	..	1,000	..	....	
		Katumailúr	800	..	..	..	800	..	....	
		Naraiyúr	3,000	..	..	..	3,000	..	....	
		Nangúr	1,800	..	..	..	1,800	..	....	
		Mangalam	300	..	..	..	300	..	....	
		Alliyúr	150	..	..	..	150	..	....	
		Pinjanúr	200	..	..	..	200	..	....	
		Kasba tank	200	..	..	..	200	..	....	
		Total	145,263	226·97	..	31,600	113,663	177·60		
Salem	....	....	..	..	..	..	..	..	....	434 acres transferred to 69-D, and the remainder correction of area.
Trichinopoly	Udayárpálaiyam	Sripurandan	486	·76	..	486	..	..	....	
Tanjore	Southern Range	Andrakadu	64	..	..	..	64	..	....	
		Settipalaiyam	421	..	..	..	421	..	....	
		Samudravéli	270	..	..	..	270	..	....	
		Náluvédapadi	374	..	..	..	374	..	....	
		Marungulam	152	..	..	..	152	..	....	
		Karungulam Mélpadi	389	..	..	..	389	..	....	
		Pudukudivadapatti	212	..	..	..	212	..	....	
		Kangiyampatti	67	..	..	..	67	..	....	
		Kannantangudi Kilayúr	232	..	..	..	232	..	....	
		Puvadúr	205	..	..	..	205	..	....	
		Tirumangalakotai Kilayúr	437	..	..	..	437	..	....	
		Do. Mélayúr	514	..	..	..	514	..	....	
		Ponnappúr	181	..	..	..	181	..	....	
		Apparasampétai	76	..	..	..	76	..	....	
		Pudugidapatnam	66	..	..	..	66	..	....	
		Tandalai	283	..	..	..	283	..	....	
		Ichankotai	77	..	..	..	77	..	....	
		Total	4,020	6·28	..	..	4,020	6·28		

Area of Forests, 1888-89, reserved under previous orders of Government or regarded as reserves prior to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Coimbatore.	....	....	..	..	..	..	..	..	....	
South Coimbatore.	Udamalpet	Fuel reserve of Yeliyamutur	63	..	..	..	63	..	....	
		Do. of Tandoni	60	..	..	..	60	..	....	
		Do. of Dhalli	485	..	..	..	485	..	....	
		Kotamangalam	3	..	..	..	3	..	....	
		Chinnamalaipalaiyam	9	..	..	..	9	..	....	
		Gudimangalam	5	..	..	..	5	..	....	
		Pulamkinar	4	..	..	..	4	..	....	
		Pákkulam	14	..	..	..	14	..	....	
		Pulavadi	8	..	..	..	8	..	....	
		Madatukulam	3	..	..	..	3	..	....	
	Pollachi	Kanatkadavu	8	..	..	..	8	..	....	
		Sankarayapuram	100	..	..	..	100	..	....	
		Mutiyampalaiyam	4	..	..	..	4	..	....	
		Periyakolandai	3	..	..	..	3	..	....	
		Kotampatti	6	..	..	..	6	..	....	
	Palladam	Arasúr	58	..	..	..	58	..	....	
		Nachipalaiyam	63	..	..	..	63	..	....	
		Ammapalaiyam	61	..	..	..	61	..	....	
		Kaduvettipalaiyam	82	..	..	..	82	..	....	
		Perumanallúr	81	..	..	..	81	..	....	
		Pudupalaiyam	66	..	..	..	66	..	....	
		Fuel reserve, Anupatti	3	..	..	..	3	..	....	
		Sittambalam	3	..	..	..	3	..	....	
		Kottanúr	3	..	..	..	3	..	....	
		Manickapuram	5	..	..	..	5	..	....	
		Tirupúr	5	..	..	..	5	..	....	
		Vadugapalaiyam	8	..	..	..	8	..	....	
		Ganapadipalaiyam	5	..	..	..	5	..	....	
		Appanaiyakanpatti	10	..	..	..	10	..	....	
		Nilambúr	10	..	..	..	10	..	....	
		Silakarakal	5	..	..	..	5	..	....	
		Agrarapudúr	5	..	..	..	5	..	....	
	Bolampatti	At the toll-gate at the road of Tadagam.	9	..	..	..	9	..	....	
		At the toll-gate east of Puliyankulam road.	55	..	..	..	55	..	....	
		Total ..	1,312	2·05	..	..	1,312	2·05		

Area of Forests, 1888-89, reserved under previous orders of Government or regarded as reserves prior to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura ..	No. V, Madura	One hundred and four tank-beds in Tirumangalam taluk ..	4,000	6·25	..	..	4,000	6·25	....	
Tinnevelly ..	....	....	..	..	..	..	..	..	....	
North Malabar.	....	....	..	..	..	..	..	..	....	
South do.	....	....	..	..	..	..	..	..	....	
South Canara.	....	....	..	..	..	..	..	..	....	
		Grand Total ..	156,423	244·41	..	32,086	124,337	194·28	....	

ABSTRACT.

Chingleput ..			1,342	2·10	..	..	1,342	2·10		
North Arcot ..			..	..	..	..	..	..		
South Arcot ..			145,263	226·97	..	31,600	113,663	177·60		
Salem			..	..	..	..	..	..		
Trichinopoly ..			486	·76	..	486	..	..		
Tanjore ..			4,020	6·28	..	..	4,020	6·28		
North Coimbatore ..			..	..	..	..	..	..		
South Coimbatore ..			1,312	2·05	..	..	1,312	2·05		
Madura ..			4,000	6·25	..	..	4,000	6·25		
Tinnevelly ..			..	..	..	..	..	..		
North Malabar			..	..	..	..	..	..		
South Malabar.			..	..	..	..	..	..		
South Canara.			..	..	..	..	..	..		
		Total ..	156,423	244·41	..	32,086	124,337	194·28		

Annual Form No. 59-D.

Forest Department, Madras, Southern Circle.

Area of Reserved Lands, 1888-89.

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput	Tiruvallúr ..	Palavakam	2,511	..	..	..	2,511	..	....	
		Pulrambakam	577	..	..	..	..	..	G.O., No. 335, Revenue, dated 18th May 1888.	Transferred to 59-A.
		Mylapore	926	..	..	577	926	..	Do.	
		Vembedu	1,075	..	..	1,075	..	..	G.O., No. 204, dated 9th March 1888.	
	Chingleput ..	Vallam	1,328	..	..	1,328	..	..	....	
		Anjur	1,507	..	..	..	1,507	..	....	
		Nemali	633	..	..	..	633	..	....	
		Alapakam	485	..	* 1	..	486	..	....	* Error in calculation now rectified *vide* Board's Proceedings, No. 20, Routine, dated 5th March 1889.
		Tirumani	639	..	..	..	639	..	....	
		Gúdalúr	2,744	..	..	..	2,744	..	....	
		Senkundram	1,236	..	..	..	1,236	..	....	
		Kolatur	1,441	..	..	..	1,441	..	....	
		Venkatapuram	119	..	..	..	119	..	....	
		Tirutteri	272	..	..	..	272	..	....	
		Paranur	378	..	..	..	378	..	....	
		Kattamkolatur	537	..	..	..	537	..	....	
		Acharapákam	864	..	..	..	864	..	....	
		Latur	1,011	..	..	..	1,011	..	....	
		Nedumaram	198	..	..	..	198	..	....	
		Venmani	238	..	..	..	238	..	....	
		Madaiyambakam	241	..	..	..	241	..	....	
		Sattamai	135	..	..	..	135	..	....	
		Kattugudalur	4,273	..	..	..	4,273	..	....	
		Rajapalaiyam	806	..	..	..	806	..	....	
		Kurumbarai	250	..	..	..	250	..	....	
		Endatur	168	..	..	..	168	..	....	
		Tandalam	1,428	..	..	..	1,428	..	....	
		Sirunallur	503	..	..	..	503	..	....	
		Kannimangalam	142	..	..	..	142	..	....	
		Nariyamputur	326	..	..	..	326	..	....	
		Karukali	600	..	..	..	600	..	....	
		Kadalamangalam	731	..	..	..	731	..	....	
		Vadatavur	1,078	..	..	..	1,078	..	....	
		Vinayaganallur	127	..	..	..	127	..	....	
		Kunamkolatur	106	..	..	..	106	..	....	
		Bapanallur	538	..	..	..	538	..	....	

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput—*cont.*	Chingleput—*cont.*	Kutrambakam .. A and B	691	..	* 17	..	‡ 708	..	G.O., No. 655, dated 13th September 1888.	* Added during selection. † Excluded at selection. ‡ Kutrambakam A. 121 Do. B. 211 Pudupur .. 376 708
		Puduppur								
		Mannur	585	..	..	† 15	570	..		
		Muttukadu	86	..	..	..	86	..		
		Kavanur	..	..	568	..	568	..	G.O., No. 347, dated 16th May 1888, Revenue.	Transferred from 59-E.
		Siruvanjur	..	..	465	..	465	..		
		Orattúr	..	..	312	..	312	..		
		Vattambakam	..	..	694	..	694	..		
		Vadakupattu	..	..	§ 699 + 29	..	728	..		§ Acquired at settlement.
		Nallúr	..	..	937	..	937	..	G.O., No. 655, dated 13th September 1888.	Transferred from 59-E.
		Moganiyam	..	..	942	..	942	..		
		Kalvoy	..	..	139	..	139	..		
		Kolattúr	..	..	1,899	..	1,899	..		
		Kayar	..	..	643	..	643	..		
		Taiyúr	..	..	1,084	..	1,084	..		
		Mambakam	..	..	766	..	766	..		
		Sonallore	..	..	1,119	..	1,119	..		
		Total ..	31,553	49·27	10,314	2,995	38,852	60·70		
North Arcot.	Pólúr	Kelur	3,537	..	..	..	3,537	..	No. 339, *Fort St. George Gazette*, dated 4th Oct. 1887.	Demarcated.
		Alliyamangalam	10,062	..	..	..	10,062	..		
		Kapalur	1,267	..	..	..	1,267	..		
		Malayalam reserve on the slopes of Javadi hill in the Pólúr taluk.	12,800	..	..	..	12,800	..		
		The slopes of Javadi hill in the Pólúr taluk including the jungle at their foot.	19,200	..	..	..	19,200	..	Board's Procs., No. 4214, dated 8th Dec. 1884.	
	Arcot	Sátúr	1,048	..	..	..	1,048	..	No. 225, *Fort St. George Gazette*, dated 14th June 1887.	Do.
		Sennaleri	1,675	..	..	..	1,675	..		
		Enadivadi	1,567	..	..	..	1,567	..		
		Tandalappantangal	1,112	..	..	..	1,112	..		
		Sholavaram	1,232	..	..	..	1,232	..		
	Wálajápet ..	Amur	6,020	..	..	..	6,020	..	No. 223, *Fort St. George Gazette*, dated 14th June 1887.	Demarcated, surveyed and fenced.
		Kolatur	1,779	..	..	..	1,779	..		
		Minnel	1,378	..	..	..	1,378	..		
		Gúdalúr	535	..	..	..	535	..		
		Banavaram	1,051	..	..	..	1,051	..		
		Ammanur	203	..	..	..	203	..		
		Anantapuram or Uriyur	540	..	..	..	540	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot—*cont.*	Wálajápet—*cont.*	Vedantangal	64	..	..	..	64	..	Board's Proceedings, No. 2329 Forest 436, dated 13th August 1885.	
		Balakishnapuram	63	..	..	..	63	..		
		Katupakam	145	..	..	..	145	..		
		Aiyal	16	..	..	..	16	..		
		Banavaram	35	..	..	..	35	..		
		Head Assistant Collector's office compound.	4	..	..	..	4	..		
	Wandiwash ..	Venkundram	1,288	..	..	..	1,288	..	No. 275, *Fort St. George Gazette*, dated 26th July 1887.	Demarcated, surveyed and fenced.
		Ponnur	939	..	..	..	939	..		
		Badur	873	..	..	..	873	..		
		Nombidu	720	..	..	..	720	..		
		Kodiyalam	125	..	..	..	125	..		
		Nedungunam	1,797	..	..	..	1,797	..		
		Vishamangalam	1,148	..	..	..	1,148	..	..	Demarcated. * Transferred to 59-A.
		Brahmakatari	635	..	..	* 635	..	..		
		Nedungal	3,645	..	..	..	3,645	..		
	Javadi	Putur	12,800	..	..	12,800	..	..		Transferred to 59-A.
		Patrakad	19,200	..	..	19,200	..	..		
		Virappanur	64,000	..	..	64,000	..	..		
	Chittur	Virasettipalle	7,587	..	..	..	7,587	..		
		Chittapara including (Bramasamudram).	4,850	..	..	..	4,850	..		Demarcated.
		Basavapalle	2,027	..	..	..	2,027	..		
		Mohimandalam	2,522	..	..	..	2,522	..		
		Pachigunta	1,800	..	..	..	1,800	..	No. 183, *Fort St. George Gazette*, dated 10th May 1887.	
		Irala	16,130	..	..	..	16,130	..		
		Santapet	2,276	..	..	..	2,276	..		
		Chittur	360	..	..	..	360	..		Do. and surveyed.
		Kinattipalle	1,417	..	..	..	1,417	..		
		Chillapalle	1,296	..	..	..	1,296	..		
		Panamúr	6,400	..	..	..	6,400	..		
	Chandragiri ..	Mamandúr extension	8,000	..	..	..	8,000	..	No. 326, *Fort St. George Gazette*, dated 20th Sept 1887.	Demarcated.
		Tirupati hill	16,000	..	..	..	16,000	..		
		Balapalle block	72,00	..	..	..	72,000	..	Board's Proceedings, No. 2329 Forest 436, dated 13th August 1885.	
		Nagapatla								
		Mungilpentla block								

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot —*cont.*	Gudiyátam ..	Panamadangi	9,600	..	..	..	9,600	..	No. 242, *Fort St. George Gazette*, dated 5th July 1887.	Demarcated.
		Paradurami extension	2,500	..	..	..	2,500	..		
		Sinnagunta	6,400	..	..	..	6,400	..		
		Naickeneri extension	1,280	..	..	..	1,280	..		
		Martana do.	9,600	..	..	..	9,600	..		
		Vikramasi	161	..	..	..	161	..	No. 14, *Fort St. George Gazette*, dated 10th Jan. 1888.	Do. and fenced.
		Korapatla	2,620	..	..	..	2,620	..	Board's Proceedings., No. 2329 Forest 436, dated 13th August 1885.	
		Petlakuppam								
		Gundlapalle								
		Panamadangi								
	Vellore	Ambúr	25,600	..	..	..	25,600	..	No. 341, *Fort St. George Gazette*, dated 4th Oct. 1887.	Demarcated.
		Arasampet	18,000	..	..	..	18,000	..		
		Tellai	15,121	..	..	15,121	..	..		Transferred to 59-A.
		Javadi hill block	20,400	..	..	..	20,400	..	Board's Proceedings., No. 939 Forest 183, dated 25th Mar. 1886.	
		Arasampet								
		Naickeneri								
	Palmanér ..	Charagal	...	..	19,200	..	19,200	..	No. 208, *Fort St. George Gazette*, dated 24th July 1888, and G.O., No. 491, Revenue dated 18th July 1888.	Partly demarcated.
		Peddunaig drug	..	..	12,800	..	12,800	..		
		Total ..	426,450	666·33	32,000	111,756	346,694	541·71		
South Arcot.	No. I, Tiruvannámalai.	Anandavadi	6,000	..	..	6,000	..	..	..	Transferred to 59-A.
		Valasamalai	7,000	..	..	..	7,000	..	..	
		Kavutumalai	6,000	..	..	6,000	..	..	..	Do. do.
		Tippakádu	6,002	..	..	6,002	..	..	..	Do. do.
		Tenmalai	20,000	..	..	..	20,000	..	..	
		Pelamaratúr or Gerugamandiyar ..	8,000	..	..	..	8,000	..	..	
		Nallapattu	7,000	..	..	..	7,000	..	..	
		Padipallam	3,748	..	..	..	3,748	..	..	
		Pakamalai	9,032	..	..	..	9,032	..	..	
		Agaram	601	..	..	601	..	..	..	
		Merkánam	81	..	..	81	..	..	..	
		Kurumbaram, 1st bit	..	..	..	..	300	..	..	Transferred to 59-A.
	No. II, Tindivanam.	Kumalampet	1,222	..	..	1,222	..	..	..	Do. do.
		Panchalam	1,200	..	..	..	1,200	..	..	
		Bomnatur *alias* Venmaniyatur ..	302	..	..	302	..	..	..	Do. do.
		Peradikuppam	1,402	..	..	..	1,402	..	..	
		Akkúr	1,200	..	..	..	1,200	..	..	
		Naduvandúr	2,808	..	..	..	2,808	..	..	
		Jaggampet	300	..	..	300	..	..	..	Do. do.
	No. III, Villupuram—*cont.*	Nabob's tope	40	..	..	..	40	..	..	
		Panampattu	254	..	..	..	254	..	..	
		Valudareddi	125	..	..	..	125	..	..	
		Kappiyambuliyúr	507	..	..	..	507	..	..	
		Gangarampálaiyam	342	..	7	..	349	..	..	
		Vakkúr	193	..	..	..	193	..	..	
		Vikravándi	311	..	..	..	311	..	..	

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*cont.*	No. III, Villupuram	Mélakondai	495	..	..	..	495	..	..	
		Satanúr	224	..	2	..	226	..	..	
		Narasinganúr	377	..	..	..	377	..	..	
		Gundalapuliyúr	871	..	11	..	882	..	..	
		Karanai	200	..	..	..	200	..	..	
		Satanúr, 2nd bit	228	..	..	..	228	..	..	
		Adanúr	1,447	..	..	..	1,447	..	..	
		Ariyalúr	350	..	..	..	350	..	..	
		Turinjikádu	700	..	..	..	700	..	..	
		Pulanjimalai	438	..	..	..	438	..	..	
		Tandavasamudram	2,000	..	..	..	2,000	..	..	
		Ramapuram	1,330	..	..	..	1,330	..	..	
		Vellakarai	1,604	..	..	..	1,604	..	..	
		Valudalampattu	900	..	..	..	900	..	..	
		Sammattikuppam	350	..	..	..	350	..	..	
		Selambanádampet	650	..	..	..	650	..	..	
		Vadakuttu, 1st bit, or Maringur forest	400	..	..	..	400	..	..	
		Vadakuttu, 2nd bit, or Vegakottai forest	600	..	..	..	600	..	..	
		Vadakuttu proper, 3rd bit ..	2,399	..	..	..	2,399	..	..	
	No. IV, Cuddalore.	Veludiyampet	1,699	..	..	..	1,699	..	..	
		Peramatur	1,700	..	..	..	1,700	..	..	
		Kangiruppu, 1st bit	2,000	..	..	..	2,000	..	..	
		Kangiruppu, 2nd bit	1,240	..	..	..	1,240	..	..	
		Velanguppam	1,000	..	..	..	1,000	..	..	
		Talangoda	201	..	..	..	201	..	..	
		Fort Saint David	45	..	..	..	45	..	..	
		Shanankuppam	195	..	..	..	195	..	..	
		Donitorai	89	..	..	..	89	..	..	
		Nochikádu	550	..	..	..	550	..	..	
		Periyakuppam	1,599	..	..	..	1,599	..	..	
	No. V, Tirukoilúr.	Nayanúr								
		Adukam								
		Attipakkam								
		Sawmimalai, 1st bit								
		Padiandal or Samimalai, 2nd bit ..								
		Nattamur, 1st bit								
		Malayanúr or Nattamur, 2nd bit ..								
		Sidevi	..	..	31,600	..	31,600	..	G.O., No. 93, Rev., dated 16th February 1889.	
		Alwarmalai								
		Sirupakkam or (Tirukoilúr) ..								
		Yedakal								
		Kutadi								
		Pandur								
		Velur								
		Perichanur								
		Total ..	109,851	171·64	31,620	20,508	120,963	189·00		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem ..	Atúr	Pattimedu	3,046	..	..	..	3,046	..		
		Nagalur	6,138	..	..	..	6,138	..		
		Tumbal	3,680	..	..	..	3,680	..		
	Salem	Pillapadi	4,992	..	..	..	4,992	..		
		Mallapuram ghât	2,285	..	..	..	2,285	..		
		Mallapuram ghât extension ..	640	..	..	..	640	..		
		Kurumbapatti	10,000	..	..	..	10,000	..		
		Vanavasi	9,000	..	..	..	9,000	..		
		Ramaswamymalai	3,000	..	..	..	3,000	..		
		Gundakal	4,000	..	..	..	4,000	..		
		Manukonda	5,500	..	..	..	5,500	..		
		Puliyankad	1,000	..	..	..	1,000	..		
		Arasankad	2,500	..	..	..	2,500	..		
		Kaputu	3,500	..	..	..	3,500	..		
		Madikotai	3,500	..	..	..	3,500	..		
		Pungamadevi	2,500	..	..	..	2,500	..		
		Godumalai	7,000	..	..	..	7,000	..		
		Jallutu	12,000	..	..	..	12,000	..		
		Pudupatti	7,500	..	..	..	7,500	..		
		Kanjamalai	4,500	..	..	..	4,500	..		
		Sanyasimalai	..	..	600	..	600	..	Nos. 266 & 273, *Fort St. George Gazette*, dated 25th Sept. 1888.	
		Nagaramalai	1,280	..	..	..	1,280	..		
		Yercaud	22	..	..	..	22	..		
		Mary land	400	..	..	..	400	..		
		Kudimadavu	4,307	..	..	..	4,307	..		
		Yelatur	2,000	..	..	..	2,000	..		
		Vellampatti	3,500	..	..	..	3,500	..		
		Kurichi	2,300	..	..	..	2,300	..		
		Mallur	5,000	..	..	..	5,000	..		
	Uttankarai ..	Ammapalaiyam	9,216	..	..	..	9,216	..		
		Nochikóttai	7,917	..	..	..	7,917	..		
		Kalnad	4,320	..	..	..	4,320	..		
		Karungal	4,320	..	..	..	4,320	..		
		Uttankarai (new)	3,200	..	..	..	3,200	..		Uttankarai block of 469 acres is specially protected.
		Wonnagiri	2,944	..	..	..	2,944	..		
		Kallávi	4,160	..	..	..	4,160	..		
		Payapatti	3,488	..	..	..	3,488	..		
		Marappúr	4,000	..	..	..	4,000	..		
		Harúr (new)	1,901	..	..	..	1,901	..		Harur block of 1,176 acres is specially protected.
		Tirtamalai	11,046	..	..	..	11,046	..		
		Vepampatti	8,640	..	..	..	8,640	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Uttankarai—*cont.*	Kalladipatti	2,912	..	..	..	2,912	..		
		Tenkaraikotta	2,368	..	..	..	2,368	..		
		Kowramalai	8,512	..	..	..	8,512	..		
		Mallapuram extension	..	..	400	* 400	..	..	No. 162, *Fort St. George Gazette*, dated 19th June 1888.	* Transferred to 59-A—*vide* No. 23, *Fort St. George Gazette*, dated 29th January 1889.
		Kowramalai do.	..	..	4,000	..	4,000	..		
		Mukanúr	..	..	8,000	..	8,000	..		
	Tirupatúr and Utankarai.	Govindapuram	3,104	..	..	..	3,104	..		
	Hosúr	Naganúr	3,200	..	..	3,200	..	..	No. 182, *Fort St. George Gazette*, dated 3rd July 1888	Transferred to 59-A.
		Hulibunda	7,360	..	..	..	7,360	..		
		Pani	5,856	..	..	..	5,856	..		
		Kundukota	4,768	..	..	..	4,768	..		
		Sivanahalli	4,992	..	..	..	4,992	..		
	Dharampuri ..	Bianurmalai	..	..	11,500	..	11,500	..	Nos. 226 and 273, *Fort St. George Gazette*, dated 25th Sept. 1888.	
		Bathanavadi	..	..	27,000	..	27,000	..		
		Perumbalai	..	..	12,000	..	12,000	..		
		Kalapambadi	..	..	9,500	..	9,500	..		
		Toppúr	..	..	7,000	..	7,000	..		
		Kesaragali	..	..	6,400	..	6,400	..	No. 125, *Fort St. George Gazette*, dated 8th May 1888.	
		Picklimalai	..	..	6,400	..	6,400	..		
		Masakal	..	..	9,600	..	9,600	..		
	Dharmapuri and Hosúr.	Morappúr	17,840	..	..	17,840	..	..	No. 289, *Fort St. George Gazette*, dated 9th Oct. 1888.	16,640 acres transferred to 59-A and 1,200 acres cut out at settlement.
	Krishnagiri ..	Maharajagadai	10,304	..	..	..	10,304	..		
		Neralkotta	7,040	..	..	..	7,040	..		
		Vellakuttai	1,152	..	..	..	1,152	..		
	Tirupatúr ..	Kotanur	7,257	..	..	..	7,257	..		
		Garagamandi	1,280	..	..	..	1,280	..		
		Madagatar	3,200	..	..	..	3,200	..		
		Andiyappanur	4,704	..	..	..	4,704	..		
	Tiruchengód ..	Pakkanad	4,500	..	..	4,500	..	..	No. 110, *Fort St. George Gazette*, dated 17th April 1888.	Transferred to 59-A.
		Suriyamalai	5,000	..	..	..	5,000	..		
	Tirupatúr and Krishnagiri.	Nandibanda	2,500	..	..	..	2,500	..		
		Total ..	288,091	450·14	102,400	25,940	364,551	569·61		
Trichinopoly.	Trichinopoly ..	Ettarai	483	..	..	..	483	..		
		Adavatúr, No. I	370	..	..	..	370	..		
		Do. ,, II	331	..	..	..	331	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Trichinopoly—*cont.*	Valúr	382	..	..	..	382	..		
		Kotapatti	211	..	..	..	211	..		
		Natarajapuram	109	..	..	..	109	..		
		Alandúr	149	..	..	..	149	..		
		Adavatúr	144	..	..	..	144	..		
		Punganúr	281	..	..	..	281	..		
	Kulitalai	Shemmalai, No. II	1,424	..	* 169	..	1,593	..		* As certained by Traverse.
		Maradúr	180	..	..	..	180	..		
		Maiyanúr	50	..	..	..	50	..		
		Pudúr	143	..	..	..	143	..		
		Sekkanam	119	..	..	..	119	..		
		Mahadanapuram	191	..	..	..	191	..		
		Pillapalaiyam	11	..	..	..	11	..		
		Vengampatti	102	..	1	..	103	..		
		Punjantangi hill valley	262	..	..	..	262	..		
		Tani and Sengamakaradu	700	..	* 14	..	714	..		
		Mudalaimalai	300	..	* 165	(a) 465	..	..		
		Karúppúr Reddipatti hill	4,254	..	..	* 142	4,112	..		
	Musiri	Omandúr	320	..	1	..	321	..		(a) Transferred to 59-A.
		Tolayanatam and Kotrapatti	333	..	..	..	333	..		
		Tirutalaiyúr	125	..	..	..	125	..		
		Yedumalai	959	..	..	..	959	..		
		Vellakalpatti	1,224	..	..	..	1,224	..		
		Pulivalam	522	..	..	..	522	..		
		Mavalipatti	1,010	..	..	..	1,010	..		
		Visalatchyammal Samudram	138	..	..	..	138	..		
		Kaliammankovil tittu	1,500	..	..	1,500	..			
		Karuppakadu tittu	2,000	..	..	2,000	..			
		Kanapadi Kannimar solai	2,560	..	..	2,560	..	..		Do. do.
		Silaiyúr	1,600	..	..	1,600	..			
		Valaiyúr	3,480	..	..	..	3,480	..		
		Manmalai								
		Kanjúrmalai and Uduvampattimalai.	3,000	..	..	..	3,000	..		
		Kanapadi (Temparanad)	12,000	..	..	12,000	..	..		Do. do.
		Kanapadi (Vunnad)	10,000	..	* ..	..	10,000	..		
		Palamalai	15,000	..	..	(a) 15,000	..	..		(a) Transferred to 59-A 10,000 acres; excluded at settlement 5,000.
	Perambalúr	Kannam	194	..	1	..	195	..		
		Kotavasal	167	..	..	..	167	..		
		Koraipadai	221	..	..	..	221	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Perambalúr—*cont.*	Sengatúr	10,000	..	..	10,000	..	..	....	Transferred to 59-A.
		Valaiyúr	3,000	..	..	..	3,000	..		
		Semmalai	5,000	..	..	5,000	..	..	....	
		Puliyur	10,000	..	..	10,000	..	..		Do. do.
		Udumbiyam	500	..	..	..	500	..		
		Periyavenmani	138	..	..	..	138	..		
		Tondapadi	276	..	..	..	276	..		
		Anukur	487	..	..	..	487	..		
		Malvoy	264	..	..	..	264	..		
		Mossiyam	152	..	..	..	152	..		
		Padu Vellakudi	113	..	..	..	113	..		
		Kallakudi	123	..	..	..	123	..		
		Attiyur	98	..	..	..	98	..		
		Veppantottai	213	..	..	..	213	..		
		Pasumbalur	148	..	1	..	149	..		
		Terkukarai								
		Pasumbalur	240	..	..	..	240	..		
		Vadakarai								
		Nunne	175	..	..	..	175	..		
		Kolatur	116	..	..	..	116	..		
		Orgalur	190	..	..	..	190	..		
		Sirukudál	166	..	..	..	166	..		
		Saturpakam	352	..	..	..	352	..		
		Kelapuliyur	228	..	1	..	229	..		
		Neikuppai, No. I	154	..	..	..	154	..		
		Do. ,, II	90	..	..	..	90	..		
		Yésanai	113	..	..	..	113	..		
		Peramattur	658	..	..	..	658	..		
		Mavalingai	260	..	..	..	260	..		
		Pulambadi, No. I	222	..	..	..	222	..		
		Do. ,, II	645	..	..	..	645	..		
		Do. ,, III	133	..	..	..	133	..		
		Viswakudi	150	..	..	..	150	..		
		Mattavarai	283	..	..	..	283	..		
		Araiyúr, No. I	290	..	..	..	290	..		
		Do. ,, II	140	..	..	..	140	..		
		Ladapuram	103	..	..	..	103	..		
		Sittali	404	..	..	..	404	..		
		Suniya Vadakarai	268	..	..	..	268	..		
		Nattapur	175	..	..	..	175	..		
		Makurumbalur	269	..	..	..	269	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Perambalúr-*cont.*	Satanavadi	214	..	..	..	214	..	....	....
		Vengalam	360	..	1	..	361	..	....	....
		Kalpadai	300	..	..	..	300	..	....	....
		Venparur	1,024	..	..	..	1,024	..	....	....
		Paravai	150	..	..	..	150	..	....	....
		Nergunam	1,253	..	..	..	1,253	..	....	....
		Tevaiyur	253	..	..	..	253	..	....	....
		Metupálaiyam	539	..	..	..	539	..	....	....
		Elambalur	214	..	..	..	214	..	....	....
		Maravattur	261	..	..	..	261	..	....	....
		Kanakasittur	310	..	..	..	310	..	....	....
		Pefiyur	856	..	..	..	856	..	....	....
		Vannarpundi	214	..	..	..	214	..	....	....
		Tiruvalandurai	197	..	..	..	197	..	....	....
		Bramhadesam	273	..	..	..	273	..	....	....
		Kurumbalur	366	..	..	..	366	..	....	....
		Nambakurchi, No. I	328	..	..	..	328	..	....	....
		Do. II	165	..	..	..	165	..	....	....
		Kilarasur ,,	207	..	..	..	207	..	....	....
		Kilakarai	119	..	..	..	119	..	....	....
		Yeraiyur and Naduvasal	562	..	..	..	562	..	....	....
		Naduvasal	176	..	..	..	176	..	....	....
		Sirumatur	499	..	..	..	499	..	....	....
	Udaiyárpálaiyam	Jayankondacholapuram, No. I	80	..	70	..	150	..		....
		Do. ,, II	250	..	50	..	300	..		....
		Vanavallur	250	..	..	50	200	..		....
		Malangankudisempu	100	..	50	..	150	..		....
		Kodukur	150	..	..	50	100	..		....
		Kanjuli	800	..	..	..	800	..		....
		Aíyur	1,320	..	80	..	1,400	..		....
		Tirukanam	700	..	..	50	650	..	Notified under section 4—*vide* G.O., dated 27th April 1888, Forest No. 32.	....
		Pasikulam	100	..	..	..	100	..		....
		Adanakurchi	250	..	..	..	250	..		....
		Sittadaiar	50	..	4	..	54	..		....
		Kulamur	200	..	..	..	200	..		....
		Periyakurchi	150	..	..	..	150	..		....
		Sattambadi	800	..	200	..	1,000	..		....
		Alvoy	300	..	..	..	300	..		....
		Ambapur	200	..	..	..	200	..		....
		Ulliyagudi	200	..	..	..	200	..		....

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Trichinopoly—*cont.*	Udaiyárpálaiyam—*cont.*	Sundreswarapuram	150	..	..	..	150	..	Notified under section 4—*vide* G.O., dated 27th April 1888, Forest No. 32.	
		Periyapalaiyam	951	..	49	..	1,000	..		
		Vettiyarvettu	460	..	190	..	650	..		
		Kovilur	640	..	60	..	700	..		
		Mudukulam	1,170	..	30	..	1,200	..		
		Velangudi	890	..	10	..	900	..		
		Kolamanikkem	..	..	242	..	242	..		
		Aramanakurchi	..	..	91	..	91	..		
		Karaipakkam	..	..	83	..	83	..		
		Tiruvenganur, I to V	..	..	136	..	136	..		
		Varappankurchi, I to VI	..	..	190	..	190	..		
		Sattambadi, I to XI	..	..	179	..	179	..		
		Sripurandan, I and II	..	..	434	..	434	..		
		Velakkurchi, I to III	..	..	48	..	48	..		
		Annagarampetai, I to V.	..	..	58	..	58	..		
		Tennamanallur	..	..	10	..	10	..		
		Total	121,886	190·45	2,618	60,417	64,087	100·14	....	
Tanjore	Northern	Vellangudi	1,900	..	..	..	1,900	..	....	
		Northern Casuarina	350	..	..	350	..	..	....	Transferred to 59-A.
		Southern do.	250	..	..	250	..	..	....	
		Neduvasal	42	..	..	42	..	..	....	
		Elantope	..	..	18	..	18	..	Notified under section 4—*vide* G.O., dated 9th May 1888, No. 319.	
		Talandondi	..	..	100	..	100	..		
		Karpalam	..	..	54	..	54	..		
		Kadagavinayaganallur	..	..	90	..	90	..		
		Ambanar, No. I	..	..	134	..	134	..	Notified under rule 2, section 26 of the Act,—*vide* Board's Proceedings, dated 10th January 1889, No. 17.	
		Do. ,, II	..	..	122	..	122	..		
		Kaliyappanallur	..	..	20	..	20	..		
	Southern	Kodiyakadu point calmere	4,355	..	..	..	4,355	..		
		Nadur, No. I	1,000	..	..	..	1,000	..		
		Do. ,, II	200	..	..	200	..	..	....	Transferred to 59 A.
		Tachenkurchi	320	..	..	320	..	..	....	
		Kollangorai	458	..	..	458	..	..	....	
		Viralipatti North block	145	..	..	145	..	..	....	
		Do. South block	234	..	..	234	..	..	....	
		Kalluputtu	85	..	..	85	..	..	....	
		Pudur, No. I	191	..	..	191	..	..	....	
		Do. ,, II	119	..	..	119	..	..	....	
		Manakadu	120	..	..	120	..	..	....	
		Talanayar	2,000	..	..	2,000	..	..	....	

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Tanjore—*cont.*	Southern—*cont.*	Tillaivilagam	320	..	..	320	..	..		Transferred to 59 A.
		Edangankotai	200	..	..	..	200	..	Notified as reserved lands under rule 2, section 26 of the Forest Act—*vide* Board's Proceedings, dated 10th January 1889, No. 17.	
		Perumagalur	..	..	13	..	13	..		
		Kolakudi	..	..	13	..	13	..		
		Mudakurchi	..	..	10	..	10	..		
		Anaikadu	..	..	10	..	10	..		
		Vattagudi	..	..	10	..	10	..		
		Alatúr	..	..	10	..	10	..		
		Kannugudi, No. I	..	..	10	..	10	..		
		Do. No. II	..	..	266	..	266	..		
		Pambutukadu	..	..	208	..	203	..		
		Kodavani	..	..	53	..	53	..		
		Vakkanattu reserve								
		Nannilam	..	..	2	..	2	..		
		Melakadu	..	..	331	..	331	..		
		Vendayanpatti	..	..	231	..	231	..		
		Kambayanattam	..	..	65	..	65	..		
		Karungulam, No. I	..	..	100	..	100	..		
		Do. No. II	..	..	141	..	141	..		
		Tolárapatti	..	..	538	..	538	..		
		Pinganmodu	..	..	116	..	116	..		
		Vaduvur, No. I	..	..	57	..	57	..		
		Do. ,, II	..	..	94	..	94	..		
		Do. ,, III	..	..	38	..	38	..		
		Do. ,, IV	..	..	133	..	133	..		
		Do. ,, V	..	..	124	..	124	..		
		Do. ,, VI	..	..	146	..	146	..		
		Do. ,, VII	..	..	212	..	212	..		
		Sorapettai	..	..	70	..	70	..		
		Ullikottai	..	..	130	..	130	..		
		Total	12,289	19·20	3,664	4,834	11,119	17·37		
North Coimbatore.	Erode	....	27,927	..	..	..	27,927	..	....	
	Karúr	....	3,627	..	..	78	3,549	..	Board's Proceedings, Forest No. 351, dated 4th July 1888.	
	Satyamangalam	Talamalai	1,21,600	..	..	..	1,21,600	..	Notified under section 4—*vide* G.O., No. 1003, dated 24th October 1887.	

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Coimbatore—*cont.*	Satyamangalam—*cont.*	Gutyalatur	179,200	..	..	..	179,200	..	Notified under section 4—*vide* G.O., No. 1075, dated 15th Nov. 1887.	
	Kollegál ..	Chikkiyatur	597,760	..	..	..	597,760	..		Of these blocks the first two (187 square miles) were notified under section 4 during the year—*vide* G.Os., No. 31 of 22nd January 1889 and No. 183 of 12th March 1889.
		Dodasampagai								
		Yedaralli								
		Ponachi								
	Bhavâni ..	Palamalai	28,160	..	..	..	28,160	..		
		Bargur	215,040	..	..	..	215,040	..		
		Total ..	1,173,314	1,833·30	..	78	1,173,236	1833·18		
South Coimbatore.	Sholakarai, Coimbatore taluk.	Small Sholakarai reserve	81	..	..	..	81	..	Notified under section 4—*vide* G.O., F. No. 208, dated 7th April 1888.	
	Palladam taluk ..	Alatûr	237	..	..	..	237	..		
		Ammapalaiyam	119	..	..	..	119	..		
		Arasûr	94	..	..	..	94	..		
		Asanellipalaiyam	160	..	..	..	160	..		
		Avanâshi	55	..	..	..	55	..		
		Ichipatti	639	..	..	..	639	..		
		Iduvai	125	..	..	..	125	..		
		Itiverampalaiyam	581	..	..	..	581	..		
		Kadirampalaiyam	188	..	..	..	188	..		
		Kâduvettipalaiyam	80	..	..	..	80	..		
		Kalipalaiyam	123	..	..	..	123	..		
		Kandampalaiyam	92	..	..	..	92	..		
		Kaniyampalaiyam	156	..	..	..	156	..		
		Kaniyûr	820	..	..	..	820	..		
		Karadibavi	50	..	..	..	50	..		
		Karaipudûr	92	..	..	..	92	..		
		Karavalur	522	..	..	..	522	..		
		Kurumbapalaiyam	299	..	..	..	299	..		
		Korumatampatti	306	..	..	..	306	..		
		Kodangipalaiyam	121	..	..	..	121	..		
		Kuppandapalaiyam	69	..	..	..	69	..		
		Kuttagam	582	..	..	..	582	..		
		Mangarasuvalaiyapalaiyam ..	271	..	..	..	271	..		
		Moparipalaiyam	163	..	..	..	163	..		
		Naranapuram	556	..	..	..	556	..		
		Narayampalli	51	..	..	..	51	..		
		Nilambûr	113	..	..	..	113	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Coimbatore—*cont.*	Palladam taluk—*cont.*	Papakulam	103	..	..	..	103	..		
		Paruvai	76	..	..	..	76	..		
		Pattampalaiyam	126	..	..	..	126	..		
		Perumanallur	159	..	..	..	159	..		
		Perunkarunaipalaiyam	53	..	..	..	53	..		
		Pudupalaiyam	793	..	..	..	793	..		
		Pulippar	72	..	..	..	72	..		
		Puluvapatti	111	..	..	..	111	..		
		Pumalur	291	..	..	..	291	..		
		Rakkiyapalaiyam	278	..	..	..	278	..		
		Samalapuram	52	..	..	..	52	..		
		Settipalaiyam	159	..	..	..	159	..		
		Senneripalaiyam	75	..	..	..	75	..		
		Sokkanur	132	..	..	..	132	..		
		Sukkampalaiyam	479	..	..	..	479	..		
		Tandagarampalaiyam	83	..	..	..	83	..		
		Tattanur	290	..	..	..	290	..		
		Tekkalur	389	..	..	..	389	..		
		Taranallur	82	..	..	..	82	..		
		Tulukamutur	60	..	..	..	60	..		
		Uppilipalaiyam	99	..	..	..	99	..		
		Vadugapalaiyam	57	..	..	..	57	..		
		Do.	293	..	..	..	293	..		
		Vallipuram	52	..	..	..	52	..		
		Velampalaiyam	81	..	..	..	81	..		
		Do.	75	..	..	..	75	..		
		Virapandi	175	..	..	..	175	..		
		Total	11,440	17·88	..	..	11,440	17·88		
Madura	No. I or Uttamapalaiyam.	Kombai	6,400	..	..	..	6,400	..		
		No. I, Vellaikaradu	965	..	..	..	965	..		
		,, II, Sonaikaradu	182	..	..	..	182	..		
		,, III, Mottaikaradu	193	..	..	..	193	..		
		,, IV, Kuttaikaradu	125	..	..	..	125	..		
		,, V, Nagamalaikaradu	118	..	..	..	118	..		
		,, VI, Perumalkovilkaradu	573	..	..	..	573	..		
		,, VII, Sanniyasikovilkaradu	283	..	..	..	283	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II or Kodaikánal.	Amburuvi	3,840	..	..	3,840	..	..	G.O., No. 250, of 15th Dec. 1888, *Fort St. George Gazette*, dated 17th April 1888.	Transferred to 59-A.
		Karugal Dhoni Médu	2,560	..	..	..	2,560	..		
		Adukam	3,200	..	..	..	3,200	..		
		Murugamalai F.F.R.	3,226	..	..	..	3,226	..		
		The southern slopes of the Palni hills.	25,600	..	..	..	25,600	..		
		The northern slopes of the Palni hills.	16,000	..	..	..	16,000	..		
		All the lands on the Lower Palni hills lying outside the limits of certain cultivable waste, selected and set apart.	32,000	..	..	..	32,000	..	*Fort St. George Gazette*, dated 18th September 1888.	Transferred to 59-A.
		Perumalmalai	12,800	..	..	12,800	..	..		
		Arunkanal	2,560	..	..	..	2,560	..		
		Kallar	9,600	..	..	..	9,600	..		
		Unjamalai	157	..	..	..	157	..		
		Kokkuparai	130	..	..	..	130	..		
		Manjakaraiar	1,600	..	..	..	..	..		
		Vanjankanal		..	..	..	..	..		
		Alayadikanal		..	..	..	..	..		
		Checkodikanal		..	..	..	..	..		
		Kadugatadikadu		..	..	..	..	..		
		Koviladikanal		..	..	..	..	..		
		Kumalarakadu		..	..	..	1,600	..		
		Talakodikadu		..	..	..	..	..		
		Kivikuttikadu		..	..	..	..	..		
		Ponvettukanal		..	..	..	..	..		
		Periyasalaikadu		..	..	..	..	..		
		Polyapattimalai		..	..	..	..	..		
		Elamalai		..	..	..	..	..		
		Nadumbaraikadu		..	..	..	..	..		
	No. III or Dindigul.	Karandamalais	22,400	..	..	..	22,400	..		
		Panjantangi hills	3,200	..	..	..	3,200	..		
		Waggatumalai F. F. R.	4,200	..	..	..	4,200	..	Notified under Section 4, G.O., dated 8th September 1888, Forest No. 102.	
		Kachakatti do.	1,694	..	..	..	1,694	..		
		Chembulimalai	1,600	..	..	..	1,600	..		
	No. IV or Méttupatti.	Mottamalai	1,280	..	..	..	1,280	..		
		Perumalai	2,560	..	..	..	2,560	..		
		Pulamalai	1,920	..	..	..	1,920	..		
		Pudagudimalai	1,600	..	..	..	1,600	..		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. V or Alagar Hill.	Tiruparamkundram	960	..	..	..	960	..	....	
		Elephant Rock	640	..	..	..	640	..	....	
		Ammamali	1,600	..	..	..	1,600	..	....	
		Mudupattimalai								
		Vandiyurkaradu								
		Nalluvampatti Karadu	1,920	..	..	..	1,920	..	....	
		Total ..	167,686	262·00	..	16,640	151,046	236·01	....	
Tinnevelly.	Nángunéri ..	Block I (*a*)	25,999	..	..	..	25,999	..	....	
		Teak Forest	285	..	..	* 1	284	..	....	* To rectify a clerical error.
		Chinnakadu defined in Mr. Baber's decision on the claims of inamdar	2,560	..	..	..	2,560	..	....	
	Ambásamudram.	Block II (*a*) and (*b*)	53,819	..	..	..	53,819	..	....	
		Mullimalai	457	..	..	..	457	..	....	
		Kaliyaniamman kovil parai ..	309	..	..	..	309	..	....	
		Koviladi parai	125	..	..	..	125	..	....	
		Salupparpadai	71	..	..	..	71	..	....	
		Kolandamámalai	1,540	..	..	..	1,540	..	....	
	Tenkási ..	Block III (*a*), (*b*) and (*c*)	10,643	..	..	..	10,643	..	....	
		Okaninran pádai	85	..	..	..	85	..	....	
		Kavalkuti peramba	375	..	..	..	375	..	....	
		Kottamalai	860	..	..	..	860	..	....	
		Nalankurchi	212	..	..	..	212	..	....	
	Sankaranainárkoil.	Block IV (*a*)	30,713	..	..	..	30,713	..	....	
		Chunnambu peramba	286	..	..	..	286	..	....	
		Seiyamalai and Vedamalai ..	294	..	..	..	294	..	....	
	Srívilliputur ..	Block V (*a*)	40,006	..	..	..	40,006	..	....	
		Kotankulam	630	..	..	* 157	473	..	....	* Portion given over to Mayuranadaswamy temple during settlement.
		Sappaniperamba	376	..	..	..	376	..	....	
		Pulpattiperamba	51	..	..	..	51	..	....	
		Valaikulamperamba	1,120	..	..	..	1,120	..	....	
		Onipattimalai	530	..	..	..	530	..	....	
		Martandamparai	135	..	..	..	135	..	....	
	Tinnevelly ..	Talaiyútu	891	..	..	..	891	..	....	
		Sivilaperiperamba	263	..	..	..	263	..	....	
	Tenkarai	Kottamadaki	1,279	..	..	..	1,279	..	....	

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tinnevelly—*cont.*	Tenkarai—*cont.*	Kudiraimalai	13,419	..	..	* 26	13,393	..	....	* Excluded during Settlement.
		Punnamparai	117	..	..	..	117	..	....	Do.
		Kongrayakurchi	78	..	..	* 18	60	..	....	
		Kalyarkádu	158	..	..	..	158	..	....	
		Vellanad hills	4,667	..	..	..	4,667	..	....	
	Otapidáram ..	Melavittam	708	..	..	..	708	..	....	
		Virusampatti	294	..	..	..	294	..	....	
		Vaipar	813	..	..	..	813	..	....	
		Total ..	194,168	303·39	..	202	193,966	303·07	....	
North Malabar.	Wynaad	Palpattúr	861	..	..	..	861	..	....	
		Vengúr	2,013	..	..	..	2,013	..	....	
		Chedlet	572	..	..	..	572	..	....	
		Karpúr	1,221	..	..	..	1,221	..	....	
		Kalúr	3,757	..	..	..	3,757	..	....	
		Excluded portions of Trans-Beni.	4,300	..	..	..	4,300	..	....	
		Kudrakot	21,502	..	..	..	21,502	..	....	
		Padri	30,468	..	..	..	30,468	..	....	
		Cardamom forest	13,683	..	..	..	13,683	..	....	
		Kanot	25,600	..	..	..	25,600	..	....	
		Chapparam	112	..	..	..	112	..	....	
		Panniyatta	150	..	..	..	150	..	....	
		Adavankunnu	39	..	..	..	39	..	....	
		Total ..	104,278	162·93	..	..	104,278	162·93	....	
South Malabar.	Nilambúr ..	Nilambúr block	5,036	..	..	..	5,036	..	....	
		Pokote	761	..	..	..	761	..	....	
		Panangod	859	..	..	..	859	..	....	
		Valluvasheri	914	..	..	..	914	..	....	
		Kanakut	669	..	..	..	669	..	....	
		Erambadam	581	..	..	..	581	..	....	
		Ambalakandi	1	..	..	..	1	..	....	
		Arimbrakutamala	322	..	..	..	322	..	....	
		Mangalasheriperamba	11	..	..	..	11	..	....	
		Putalata and Chitarikal peramba ..	8	..	..	..	8	..	....	
		Muriyat	1,765	..	..	..	1,765	..	....	
		Kariyen	1,002	..	..	..	1,002	..	....	
		The Silent valley	17,280	..	..	..	17,280	..	....	
		The new Amarapalaiyam plantation.	..	..	96,000	..	96,000	..	F.S.G.G., dated 19th June 1888.	Transferred from 59-E.

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded, or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Malabar—*cont.*	Walawanád Taluk	Attapadi Valley—								
		Block No. II	..	..	24,320	..	24,320	..	F.S.G.G., dated 29th May 1888.	
		Do. No. III (*a*)	..	..	12,800	..	12,800	..		
		Do. No. III (*b*) i and III (*b*) ii ..	..	..	4,480	..	4,480	..		
		Do. No. IV (*a*), IV (*b*), and IV (*c*)	..	..	16,640	..	16,640	..		
	Pálghat ..	Chatamkulamkarai peramba ..	30	..	..	..	30	..	....	
		Tamburatta peṭai *alias* Pilacheripalaiyam	100	..	..	..	100	..	....	
		Tiruvazhamkunnu *alias* Panakadam	1,000	..	..	..	1,000	..	....	
		Total ..	30,339	47·41	154,240	..	184,579	288·40	....	
South Canara.	Mangalore ..	No. 5, Ullal Casuarina and Honne plantation.	58	..	..	‡ 58	..	..	....	‡ Transferred to 59-A.
		No. 10, Tannirbhavi	70	..	..	‡ 70	..	..	....	* Decrease due to modification of boundary at settlement and correction of area.
		No. 11, Todar reserve	640	..	..	* 182	458	..	....	† Transferred to 59-A 376 acres; correction of area 104 acres.
		No. 12, Hosabetta reserve	480	..	..	† 480	..	..	....	§ Increase resulting from correction of area.
	Udipi	No. 13, Mujimalai reserve ..	3,200	..	..	..	3,200	..	....	¶ Of this area No. 17, Harkúr block, 1,920 acres was notified under section 4, G.O., No. 18 dated 8th March 1889.
		Tenkahola	2,068	..	..	* 29	2,039	..	....	(*a*) Due to correction of area.
		Chinkramali	2,560	..	..	‡ 2,560	..	..	....	* Rectification of area.
		Manajekádu	420	..	§ 3	‡ 423	..	..	....	
		Durgamalai	1,773	..	..	* 171	1,602	..	....	
		Andar reserve	18,193	..	* 4141	..	22,334	..	....	
	Uppinangadi ..	Dharmastala Mundaji	9,600	..	..	..	9,600	..	....	
		Charmadikanapadi	12,800	..	..	..	12,800	..	....	
	Kasaragód ..	Parappa	7,680	..	..	..	7,680	..	....	
	Kondapur ..	....	144,000	..	..	..	¶ 144,000	..	....	
	Udipi	....	77,386	..	..	(*a*) 3,943	73,443	..	....	
	Mangalore ..	....	24,480	..	(*a*) 3213	..	27,693	..	....	
	Uppinangadi ..	....	288,000	..	..	..	228,000	..	....	
	Kasaragód ..	....	32,920	..	..	..	32,920	..	....	
		Total ..	626,328	978·64	7,357	7,916	625,769	977·76	....	
		Grand Total ..	3,297,653	5152·58	344,213	251,286	3,390,580	5,297·78	....	

Abstract of Form No. 59-D.

District.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.	
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.
Chingleput	31,533	49·27	10,314	2,995	38,852	60·70
North Arcot	426,450	666·33	32,000	111,756	346,694	541·71
South do.	109,851	171·64	31,620	20,508	120,963	189·00
Salem	288,091	450·14	102,400	25,940	364,551	569·61
Trichinopoly	121,886	190·45	2,618	60,417	64,087	100·14
Tanjore	12,289	19·20	3,664	4,834	11,119	17·37
North Coimbatore	1,173,314	1,833·30	..	78	1,173,236	1,833·18
South do.	11,440	17·88	..	..	11,440	17·88
Madura	167,686	262·00	..	16,640	151,046	236·01
Tinnevelly	194,168	303·39	..	202	193,966	303·07
North Malabar	104,278	162·93	..	..	104,278	162·93
South do.	30,339	47·41	154,240	..	184,579	288·40
South Canara	626,328	978·64	7,357	7,916	625,769	977·76
Total ..	3,297,653	5,152·58	344,213	251,286	3,390,580	5,297·78

ANNUAL FORM No. 59-E.

Forest Department, Madras, Southern Circle.

Area of other Forests.

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput..	Saidápet	Unamanjeri	..	..	752	..	752	..	These areas were selected for reservation but not yet notified under section 4.	....
		Kumili	..	..	683	..	683	..		
		Kattur	..	..	2,894	..	2,894	..		
		Alathur	..	..	853	..	853	..		
		Illalur	..	..	702	..	702	..		
		Sirukundram A	..	..	872	..	872	..		
		Do. B	..	..	378	..	378	..		
		Hanumantaputteri	..	..	284	..	284	..		
		Pulikkaradu	..	..	176	..	176	..		
		Tambaram	..	..	262	..	262	..		
		Kadaperi	..	..	229	..	229	..		
		Selaiyur	..	..	492	..	492	..		
		Maduraipakam	..	..	359	..	359	..		
		Nanmangalam	..	..	333	..	333	..		
		Madambakam	..	..	567	..	567	..		
		Erumayur	..	..	197	..	197	..		
		Arasankalani	..	..	187	..	187	..		
		Perumbakam A	..	..	639	..	639	..		
		Do. B	..	..	117	..	117	..		
		Meyyur	..	..	534	..	534	..		
		Kovilpadugai	..	..	377	..	377	..		
		Sikkarayapuram	..	..	100	..	100	..		
		Kuttambakam	..	..	300	..	300	..		
		Mitta Nemali	..	..	262	..	262	..		
		Tirumalaivayal	..	..	389	..	389	..		
		Nandambakam	..	..	262	..	262	..		
		Tirusulam	..	..	270	..	270	..		
	Chingleput	Kavanur	568	..	..	568	..	..	G.O., No. 347, dated 16th May 1888, Revenue.	Transferred to 59-D.
		Siruvanjur	465	..	..	465	..	..		
		Orattur	312	..	..	312	..	..		
		Vadambakam	694	..	..	694	..	..		
		Vadakupattu	699	..	..	699	..	..		
		Nallur	937	..	..	937	..	..	G.O., No. 655, dated 13th September 1888.	
		Maganyam	942	..	..	942	..	..		
		Kulvay	139	..	..	139	..	..		
		Kolatur	1,899	..	..	1,899	..	..		

Area of other Forests—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput—*cont.*	Chingleput—*cont.* ..	Kagar	643	..	..	643	..	..	G.O., No. 655, dated 13th September 1888.	Transferred to 59-D.
		Taiyur	1,084	..	..	1,084	..	..		
		Mambakam	766	..	..	766	..	..		
		Sonalur	1,190	..	..	1,190	..	..		
		Total ..	10,338	16·15	13,470	10,338	13,470	21·04		
North Arcot ..	....	....	..	..	..	..	..	..	....	
South Arcot	No. I, Tiruvannámalai ..	Tenmalai	16,960	..	..	..	16,960	..	....	
		Tandrampet	20	..	..	..	20	..	....	
		Kadambai	280	..	..	..	280	..	....	
		Kannamadi	25,600	..	..	..	25,600	..	....	
		Nattampallai	2,560	..	..	..	2,560	..	....	
		Ravandivadi	12,800	..	..	..	12,800	..	....	
		Porasapet	15,360	..	..	..	15,360	..	....	
		Sirupakam	11,520	..	..	..	11,520	..	....	
		Erayurmalai	5,120	..	..	..	5,120	..	....	
		Nukambadi Morkulam	32,000	..	..	..	32,000	..	....	
		Rasimalai	19,200	..	..	..	19,200	..	....	
		Veppur	25,600	..	..	..	25,600	..	....	
		Bimarapatti Attipadi	19,200	..	..	..	19,200	..	....	
		Kaludaikattimalai	7,040	..	..	..	7,040	..	....	
		Sannamalai	10,880	..	..	..	10,880	..	....	
		Tachampet including Atipakum.	29,080	..	..	..	29,080	..	....	
		Kolamanjanur	3,200	..	..	..	3,200	..	....	
		Pudupalaiyam	6,400	..	..	..	6,400	..	....	
		Tiruvannámalai timber yard ..	4	..	..	..	4	..	....	
		Javadi slopes from Bandirevu to Madagarai in Salem district.	25,600	..	..	..	25,600	..	....	
		Damaraikadu in North Arcot district.	7,880	..	..	..	7,880	..	....	
	No. II, Tindivanam ..	Vailamur Timmippendrug ..	10,240	..	..	..	10,240	..	....	
		Kotenmalai near Padipallam block.	392	..	..	..	392	..	....	
		Vellimodu	2,560	..	..	..	2,560	..	....	

Area of other Forests—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Arcot—*cont.*	No. II, Tindivanam—*cont.*	Minamurmalai	3,840	..	..	..	3,840	..	....	
		Valeti	1,280	..	..	..	1,280	..	....	
		Pattuvoy	1,280	..	..	..	1,280	..	....	
		Kilsevur	1,280	..	..	..	1,280	..	....	
		Nadukuppam to Bramhadesam	3,840	..	..	..	3,840	..	....	
		Parikalpet	70	..	..	..	70	..	....	
	No. III, Villupuram	Odaiyanattam and Kadiyam	6,400	..	..	..	6,400	..	....	
		Ariyalur forest	150	..	..	..	150	..	....	
		Pallipudupet	180	..	..	..	180	..	....	
		Panjamadevi	50	..	..	..	50	..	....	
		Puntotam	50	..	..	..	50	..	....	
		Sattipattu	50	..	..	..	50	..	....	
		Periyapuram	50	..	..	..	50	..	....	
	No. IV, Cuddalore	Selambanadampettai	640	..	..	..	640	..	....	
		Badrakottai	1,281	..	..	..	1,281	..	....	
		Velankuppam	2,560	..	..	..	2,560	..	....	
		Kanijiruppu	600	..	..	..	600	..	....	
		Vengadampettai, 15th milestone.	250	..	..	..	250	..	....	
	No. IV, Chidambaram	Pinnalur Wálajápet tank block	1,600	..	..	..	1,600	..	....	
		Virinjipuram and Kandachipuram.	2,560	..	..	..	2,560	..	....	
		Kuttadai	640	..	..	..	640	..	....	
		Timmachur to Gadilam river	4,920	..	..	..	4,920	..	....	
	No. V, Tirukoilúr	Chikkadu	4,920	..	..	..	4,920	..	....	
		Paiyur	50	..	..	..	50	..	....	
		Kolatur	70	..	..	..	70	..	....	
		Mambakam	40	..	..	..	40	..	....	
		Sikkampet	50	..	..	..	50	..	....	
		Muttalur	50	..	..	..	50	..	....	
		Kodiyur	50	..	..	..	50	..	....	
	No. VI, Kallakurchi	Ponparappi forest	9,600	..	..	..	9,600	..	....	
		Kadambur	3,100	..	..	..	3,100	..	....	
		Lalapet forest includiug Chittal.	14,500	..	..	..	14,500	..	....	
		Tagarai Kachirajapalaiyam	15,000	..	..	..	15,000	..	....	
		Parigam	2,000	..	..	..	2,000	..	....	
		Kanai	3,000	..	..	..	3,000	..	....	
		Poigunnamalai	1,000	..	..	..	1,000	..	....	
		Palavalam	2,000	..	..	..	2,000	..	....	
		Rangappanur	1,000	..	..	..	1,000	..	....	

Area of other Forests—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*cont.*	No. VII, Vriddháchalam	Kammapuram	1,400	..	..	..	1,400	..	....	
		Kodanur, south of 45th mile-stone.	1,000	..	..	..	1,000	..	....	
		Wuyakondravi and Kottayam ..	2,000	..	..	..	2,000	..	....	
		Block near 25th mile-stone ..	150	..	..	..	150	..	....	
		Podur	1,920	..	..	..	1,920	..	....	
		Kolatur	1,280	..	..	..	1,280	..	....	
		Periyanesalur	1,280	..	..	..	1,280	..	....	
		Total ..	388,527	607·08	..	..	388,527	607·08		
		Fresh selections.								
Salem ..	Atúr	Manur	..	..	4,000	..	4,000	..	....	Proposals to notify these blocks under section 4 of the Act have been submitted and no orders have as yet been received.
		Pattimedu extension	..	..	1,200	..	1,200	..	....	
		Tumkal	..	..	4,800	..	4,800	..	....	
	Tirupatúr	Neckanamalai	..	..	2,300	..	2,300	..	....	
		Proposed reserves.								
	Atúr	Gengavilli	..	..	7,040	..	7,040	..	....	
		Manmalai	..	..	5,120	..	5,120	..	....	
		Jadayagounden Nad	..	..	11,220	..	11,220	..	....	
		Mavar	..	..	2,000	..	2,000	..	....	
		Sengad	..	..	1,000	..	1,000	..	....	
		Pyle Nad	..	..	7,000	..	7,000	..	....	
		Varágur extension	..	..	500	..	500	..	....	
	Namákal	Gundur Nad	..	..	8,500	..	8,500	..	....	
		Shelur Nad	..	..	9,000	..	9,000	..	....	
	Uttankarai	Pillapatti extension	..	..	3,200	..	3,200	..	....	
		Tumbakal do.	..	..	3,840	..	3,840	..	....	
		Puvampatti do.	..	..	1,920	..	1,920	..	....	
		Chitteri do.	..	..	2,880	..	2,880	..	....	
		Chittilingi do.	..	..	2,880	..	2,880	..	....	
		Kottapatti do.	..	..	11,520	..	11,520	..	....	
		Tirtamalai	..	..	2,560	..	2,560	..	....	
		Morappur	..	..	1,920	..	1,920	..	....	
		Wonnagiri	..	..	2,240	..	2,240	..	....	

Area of of other Forests—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Uttankarai—*cont.*	Ponnagarapatti	..	..	3,840	..	3,840	..	....	
		Naikanur	..	..	2,720	..	2,720	..	....	
		Singarapet extension	..	..	1,600	..	1,600	..	....	
	Tirupatúr	Yelagiri Southern reserve	..	..	1,500	..	1,600	..	....	
		Andiyappanur	..	..	2,796	..	2,796	..	....	
		Govindapuram	..	..	156	..	156	..	....	
		Inner Javadis	..	..	20,268	..	20,263	..	....	
		Nagalutu	..	..	1,500	..	1,500	..	....	
	Krishnagiri	Narlapalli	..	..	5,444	..	5,744	..	....	
		Vartampalli	..	..	2,216	..	2,216	..	....	
		Dowlatabad	..	..	2,065	..	2,065	..	....	
		Pennar	..	..	2,094	..	2,094	..	....	
		Tattakal	..	..	857	..	857	..	....	
		Kaveripatnam	..	..	2,400	..	2,400	..	....	
	Hosúr	Sanimavú	..	..	5,600	..	5,600	..	....	
		Kempakari	..	..	5,280	..	5,280	..	....	
		Marandahalli	..	..	1,920	..	1,920	..	....	
		Panjapalli	..	..	10,880	..	10,880	..	....	
		Galigattam	..	..	6,080	..	6,080	..	....	
		Kestur extension	..	..	3,600	..	3,600	..	....	
		Talli do.	..	..	4,320	..	4,320	..	....	
		Ubbarani	..	..	7,680	..	7,680	..	....	
		Kachuvadi	..	..	7,040	..	7,040	..	....	
		Hudaiduyam	..	..	8,960	..	8,960	..	....	
		Maniyambadi	..	..	5,120	..	5,120	..	....	
		Hulibanda extension	..	..	2,240	..	2,240	..	....	
		Amisonai	..	..	1,200	..	1,200	..	....	
		Total	..	..	216,311	..	216,311	337·99		
Trichinopoly	....	....	..	..	..	..	..	..	....	
Tanjore	Southern Range	Kariyapatnam	188	..	..	..	188	..	....	
		Valligadangu	40	..	..	..	40	..	....	
		Vanduvancheri	150	..	..	..	150	..	....	
		Mudupet	300	..	..	..	300	..	....	
		Kovilpadu	137	..	..	..	137	..	....	

Area of other Forests—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Tanjore—*cont.*	Southern Range—*cont.*	Vanavamahadevi	380	..	..	..	380	..	....	
		Vallapallam	500	..	..	..	500	..	....	
		Pushpayanam	366	..	..	..	366	..	....	
		Periyakudagai								
		Total ..	2,061	3·22	..	..	2,061	3·22		
North Coimbatore.	....	....	..	..	..	..	..	..	....	
South Coimbatore.	....	....	..	..	..	..	..	..	....	
Madura	No. I or Uttamapalaiyam.	Detached hills and Karadus in the Cumbum valley.	787	..	..	..	787	..	....	
		Government portion of Aggamalais.	9,280	..	..	..	9,280	..	....	
	No. II or Kodaikánal	Andipatti hills	12,800	..	..	..	12,800	..	....	
		Upper Palni plateau	32,000	..	..	..	32,000	..	....	
	No. III or Dindigul	Portion of the slopes of Sirumalais.	640	..	..	..	640	..	....	
		Detached hills near Aiyalur	9,600	..	..	..	9,600	..	....	
		Do. near Kanavoipatti.	3,840	..	..	..	3,840	..	....	
		Guriyalapatti	..	..	* 130·52	..	130·52	..	G.O., No. 868, dated 15th Dec. 1888.	Transferred from 59-A.
	No. IV or Mattupatti	A portion of Manjamalais	4,800	..	..	..	4,800	..	....	
		Nagamalai	..	..	* 2,356	..	2,356	..	G.O., No. 868, dated 15th Dec. 1888.	
	No. V or Alagar hill	Nedumalais	3,840	..	..	..	3,840	..	....	
		Mudugamalai	..	..	* 2,700	..	2,700	..	G.O., No. 868, dated 15th Dec. 1888.	Nedumalais and Perumamalai were transferred from No. IV range.
		Vellamalai								
		Perumamalai								
		Pudupatti	..	..	* 127	..	127	..		
		Sekkumangalam	..	..	* 468	..	468	..		
		Total ..	77,587	121·23	5,781	..	83,368	130·26		

Area of other Forests—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tinnevelly	Tenkarai	Paramankurchi	1,133	..	..	..	1,133	..	....	
	Nánguneri	Arasur	6,831	..	..	..	6,831	..	....	
		Kuttam	2,860	..	..	..	2,860	..	....	
		Total	10,824	16·91	..	..	10,824	16·91		
North Malabar.	Wynaad	Manatana	214,400	335·00	..	..	214,400	335·00	....	
South Malabar.	Pálghat	Forest land near Dhoni	150	..	..	..	150	..	....	
	Nilambúr	The new Amarapalaiyam plantation.	96,000	..	..	96,000	..	..	....	Transferred to 59-D.
		Total	96,150	150·23	..	96,000	150	·23		
South Canara.			..	..	..	..	..	..	....	
		Grand Total	799,887	1,249·82	235,562	106,338	929,111	1,451·73		

ABSTRACT.

Chingleput			10,338	16·15	13,470	10,338	13,470	21·04	....	
North Arcot			..	..	..	..	..	..	....	
South Arcot			388,527	607·08	..	..	388,527	607·08	....	
Salem			..	..	216,311	..	216,311	337·99	....	
Trichinopoly			..	..	..	..	..	..	....	
Tanjore			2,061	3·22	..	..	2,061	3·22	....	
North Coimbatore.			..	..	..	..	..	..	....	
South Coimbatore.			..	..	..	..	..	..	....	
Madura			77,587	121·23	5,781	..	83,368	130·26	....	
Tinnevelly			10,824	16·91	..	..	10,824	16·91	....	
North Malabar			214,400	335·00	..	..	214,400	335·00	....	
South Malabar.			96,150	150·23	..	96,000	150	·23	....	
South Canara.			..	..	..	..	..	..	....	
		Total	799,887	1,249·82	235,562	106,338	929,111	1,451·73		

ANNUAL FORM. No. 60.

Forest Department, Madras, Southern Circle.

Area of Plantations, 1888-89.

District.	Range.	Name of Plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Regular Plantations.						
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	Chingleput ..	Maiyúr, Pilapúr and Mamandúr ..	263 3	21,662	..	593	263 3	22,255	
		Wálajábád	14·55	2,145	..	212	14·55	2,357	
		Hanúmantaputéri	12		..		12		
		Mélamaiyúr	24	4,360	..	84	24	4,444	
		Vembakam	8		..		8		
		Nazaretpet	71·54	1,763	..	46	71·54	1,809	
		Add charges incurred in 1883-84, but adjusted during the month of August 1888.	..	..	..	22	..	22	
		Total ..	396·09	29,930	..	957	396·09	30,887	
North Arcot ..	Chandragiri ..	Gazerlamandiam	250	3,494	— *250	..	..	3,494	* Merged in reserved forests and excluded from plantation area as per para. 8 of Conservator's Inspection memo. in Board's Proceedings, dated 13th April 1887, Forest No. 198 (Land Revenue
	Gudiyátam ..	Tiruvallam	435	34,944	..	1,617	435	36,561	
		Virinjipuram	260	23,195	..	1,416	260	24,611	
		Ammerdi	160	6,762	..	928	160	7,690	
	Wálajápet ..	Vanivédu	30	3,055	..	297	30	3,352	
	Arcot	Kilminnel	150	12,746	..	991	150	13,737	
	Vellore	Ammerdi	25	4,512	— *25	..	..	4,512	
		Total ..	1,310	88,708	— 275	5,249	1,035	93,957	
South Arcot ..	No. I, Tiruvannámalai.	Chengam	8	1,267	..	..	8	1,267	
	No. II, Tindivanam.	Agaram	106	8,311	..	115	106	8,426	
		Akshikadu	107	3,168	..	229	107	3,397	
	No. IV, Cuddalore.	Tálangoda	165	10,338	..	265	165	10,603	
		Fort St. David	38	5,160	..	141	38	5,301	
		Shonankuppam	195	10,123	..	234	195	10,357	
		Donitorai and other salt topes around ..	90·97	3,217	..	104	90·97	3,321	
		Nochikádu	364·46	10,560	..	264	364·46	10,824	
		Periyakuppam	444·52	8,477	..	151	444·52	8,628	
		Amount of land-rent paid for plantations within the Municipality of Cuddalore town.	..	1,051	..	210	..	1,261	
	No. IV, Chidambaram.	Killai plantation	74·50	2,968	..	70	74·50	3,038	
		Coleroon mouth plantation	49·14	1,855	..	52	49·14	1,907	
		Periyapet plantation	115·46	1,270	..	55	115·46	1,325	

Area of Plantations, 1888-89—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
South Arcot—*cont.*	No. V, Tirukoilúr.	Malatar bed plantation	27	30,101	..	..	27	30,101	
		Velúr	..	2,563	..	..	..	2,563	
		Add pay of the manager and his gumastah in charge of Tirukoilúr plantation.	..	916	..	..	..	916	
		Total ..	1,785·05	1,01,345	..	1,890	1,785·05	1,03,235	
Salem ..	....	....	..	..	..	..	..	..	
Trichinopoly ..	Trichinopoly ..	Punganúr	425	641	..	60	425	701	
		Elamanúr	117·10	12,893	..	252	117·10	13,145	
		Pettuvaitalai	137	461	..	88	137	549	
		Kulitalai	77·18	10,935	..	252	77·18	11,187	
		Manatattai	44·86	4,902	..	363	44·86	5,265	
		Lálápet	268·20	7,116	..	440	268·20	7,556	
	Kulitalai ..	Ambásamudram	319	575	..	52	319	627	
		Mahadanapuram	191	368	..	48	191	416	
		Sittalavoi	160·32	8,164	..	256	160·32	8,420	
		Sekkanam	119	3,120	..	60	119	3,180	
		Kattalai	74·35	8,275	..	264	74·35	8,539	
		Pudúr	141	874	..	57	141	931	
		Maiyanúr	50	355	..	85	50	440	
	Udayárpálaiyam.	Kolamanikkam	242	6,570	..	367	242	6,937	
		Aramanaikurchi	91	2,524	..	12	91	2,536	
		Karaipakam	107	2,894	..	97	107	2,991	
		Tiruvenganúr	185	2,374	..	55	185	2,429	
		Varappakurchi	192	1,974	..	89	192	2,063	
		Sattambadi	105	2,361	..	..	105	2,361	
		Sripurandan	486	3,776	..	167	486	3,942	
		Valakurchi	130	614	..	99	130	713	
		Annagarampet	92	1,927	..	151	92	2,078	
		Total ..	3,754·01	83,692	..	3,314	3,754·01	87,006	
Tanjore ..	Northern ..	Tranquebar, No. I	52	..	..	..	52	..	
		Do. No. II	92	..	..	..	92	..	
		Vettangudi	453	..	..	1,256	453	..	
		Kodiyampalaiyam	60	..	..	48	60	..	
		Neidavasal	51	..	..	..	51	..	
		Total ..	708	11,451	..	1,304	708	12,755	

Area of Plantations, 1888-89—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
North Coimbatore.	Kollegál	Bylúr	97	32,175	..	949	97	33,124	Sandalwood plantations.
South Coimbatore.	Tunakadavu ..	No. I, Plantation	8·5	4,402	..	53	8·5	4,455	These are the plantations in No. I reserve on the Anaimalais.
		,, II, do.	8				8		
		,, III, do.	3				3		
		Total ..	19·5	4,402	..	53	19·5	4,455	
Madura ..	No. I, Uttamapalaiyam.	Vannatiparai teak plantation	4	1,391	..	2	4	1,393	
	No. II, Kodaikánal.	Kodaikánal Eucalyptus plantation	8	3,566	..	204	8	3,770	
		Kodaikánal Acacia plantation	5·50				5·50		
		Kodaikánal-Parappar plantation	11·50	1,026	* 4·50	86	16	1,112	* Rectification of error in previous year.
		Vilamkombai	4·14	976	..	1	4·14	977	
		Pumbarai	3	533	..	..	3	533	
		Kodaikánal scattered plantation	3	1,081	..	..	3	1,081	
		Gunden shola plantation	5	339	* 15	† 1,361	20	1,700	† New planting.
		Total ..	44·14	8,912	19·50	1,654	63·64	10,566	
Tinnevelly ..	....	....	..	..	..	..	..	..	
North Malabar..	....	Kanot teak plantation	41·50	3,389	..	322	41·50	3,711	
South Malabar..	Nilambúr ..	Amarapalaiyam reserve	408·77	..	..	..	408·77	..	
		Chatambarai do.	498·10	..	..	..	498·10	..	
		Nellikutta do.	120·23	..	..	..	120·23	..	
		Aravillikombai do.	134·86	..	..	..	134·86	..	
		Aruvakód do.	111·44	..	..	..	111·44	..	
		Edakód	692·52	..	..	..	692·52	..	
		Elanjiri	337·76	..	..	..	337·76	..	
		Ramalór	21·33	..	..	..	21·33	..	
		Mulatmunna	71·56	..	..	..	71·56	..	
		Panangód reserve	590·09	..	..	..	590·09	..	
		Valuvasheri do.	584·00	..	‡ 117·24	..	701·24	..	‡ Third block of planting teak with mahogany standard, 1888-89. Actual area.
		Mangalasheri do.	10·74	..	..	..	10·74	..	
		Ambalakandi do.	1·01	..	..	..	1·01	..	
		Chittarikal and Puttalat	8·35	..	..	..	8·35	..	
		Arimbrakuta	21·75	..	..	..	21·75	..	
		Total ..	3,612 51	2,25,168	117·24	8,759	3,729·75	2,33,927	

Area of Plantations, 1888-89—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
South Canara	Mangalore	Ullal casuarina and Honne plantations	57·11	1,598	..	170	57·11	1,768	
		Tannirbavi casuarina plantations	44	2,401	* 10	851	54·	3 252	* New planting
	Kásaragód	Parappar teak plantation	50	16,657	† 2·08	60	52·08	16,717	† Result of Survey.
		Total ..	151·11	20,656	12·08	1,081	163·19	21,737	
		Grand Total of Regular Plantations ..	11,918·91	6,09,828	— 275 + 148·82	25,532	11,792·73	6,35,360	
		CULTURAL OPERATIONS.							
Direction ..	....	....	..	1,141	..	..	..	1,141	
Chingleput ..	....	....	..	..	..	..	..	..	
North Arcot ..	....	....	..	..	..	..	..	..	
South Arcot ..	Cuddalore ..	Ramapuram	70	..	..	..	70	..	
		Forests in Tindivanam and Villupuram	593	32	..	..	593	32	
		Forests in Cuddalore, Vriddháchalam and Chidambaram.	663	345	..	..	663	345	
		Add charges incurred for carriage and maintenance, &c., of exotic plants planted in forests, but debited to A-VIII *d*.	..	393	..	259 — ‡ 12	..	640	‡ As per Examiner's accounts.
		Total ..	1,326	770	..	247	1,326	1,017	
Salem	....	....	..	..	..	..	..	..	
Trichinopoly ..	Trichinopoly ..	Kaduvoi bank, Melúr	Mls. 6	54	..	..	Mls. 6	54	
		Peruvalai bank	,, 2	133	..	..	,, 2	133	
		Coleroon left bank trunk road to Alambadi	,, 22	5,523	..	680	,, 22	6,203	

Area of Plantations, 1888-89—*cont:*

District.	Range.	Name of Plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Trichinopoly—*cont.*	Udayárpálaiyam.	Naddiyur project	Mls. 4	2,267	..	..	Mls. 4	2,267	
		Coleroon left bank, Sembiyagudi to Vaippúr ..	,, 21	7,547	..	..	21	7,547	
		Panneri main channel	,, 19	7,094	..	..	19	7,094	
		Do. branch channel	,, 16	2,199	..	..	16	2,199	
		Lower anicut line	,, 10	3,457	..	..	10	3,457	
		Vadavar padugai	..	3	..	..	..	3	
	Musiri	Kenathur	..	..	..	38	..	38	
		Total ..	Mls. 100	28,277	..	718	Mls. 100	28,995	
Tanjore ..	Southern Range.	Nadúr	27	4	75	42	102	46	
		Ichankottai	9	9	..	..	9	9	
		Kollangarai	21	..	..	11	21	11	
		Karungulam Mélpadi	5	..	..		5		
		Marungulam	20	..	..		20		
		Avelikudi	10	..	10	3	20	3	
		Nadukavéri Natarajapuram	9	..	..	..	9	..	
		Nannillam	2	..	..	..	2	..	
		Odiyandévi	20	..	..	..	20	..	
		Edangankottai Méliyúr	7	..	30	7	37	7	
		Thirteen topes in Pudukóta taluk	135	..	..	..	135	..	
		Védaranyam (date garden)	21	148	..	59	21	207	
		Puthur, No. I	..	..	45	11	45	11	
		Peraiyur	..	..	2	..	2	..	
		Ponnapur	..	..	5	* 6	5	6	* Includes Rs. 5 added by the Examiner.
		Vaduvur	..	..	40	10	40	10	
	Northern Range.	Kattucheri	15	143	..	..	15	143	
		Kalliyappanullúr	18	138	..	..	18	138	
		Mudikondanullúr	25	136	..	48	25	184	
		Vettangudi ,, ,, ,, ...	520	403	..	276	520	679	
		Total ..	864	981+286 = 1,267	† 207	473	1,071	1,464+286 = 1,740	† This area was dibbled over with cashew-nut during the year.
North Coimbatore.	..	....	..	..	..	..	..	..	

Area of Plantations, 1888-89—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
South Coimbatore.	..	....	..	..	..	..	..	..	
Madura	..	....	..	..	..	..	..	..	
Tinnevelly ..	Tenkarai sub-range.	Kudiraimalai reserve	1,059·93	1,561	* 264	443	1,323·93	2,004	* New planting.
		Kotamadakikádu	2·50	35	..	..	2·50	35	
	Southern range, Ambásamudram.	Pachaipil Teri and Inji tanalam	..	..	* 10	51	10	51	
		Ollar	..	..	* 3	15	3	15	
		Kannikatti	..	..	* 1·50	8	1·50	8	
		Cost of temporary establishment	..	..	..	70	..	70	
		Total ..	1,062·43	1,596	278·50	587	1,340·93	2,183	
North Malabar.	..	Rubber experiments	..	784	..	..	..	784	
		Cost of cardamom cultivation	109	776	..	58	109	834	
		Total ..	109	1,560	..	58	109	1,618	
South Malabar..	..	....	..	..	..	..	..	..	
South Canara..	Uppinangudi .. Kásaragód .. Kondapúr .. Mangalore ..	Experimental cultivation of giant bamboos ..	..	28	..	10	..	38	
		Total ..	..	28	..	10	..	38	
		Grand Total of Cultural Operations ..	3,361·43 Mls. 100	34,639	485·50	2,093	3,846·93 Mls. 100	36,732	

Abstract of Form No. 60.

District.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.	
	Area.	Cost.	Area.	Cost.	Total area.	Total cost.
Regular Plantations.						
	Acs.	Rs.	Acs.	Rs.	Acs.	Rs.
Chingleput	396·09	29,930	..	957	396·09	30,887
North Arcot	1,310	88,708	— 275	5,249	1,035	93,957
South do.	1,785·05	1,01,345	..	1,890	1,785·05	1,03,235
Salem	..	..	..	..	..	..
Trichinopoly	3,754·01	83,692	..	3,314	3,754·01	87,006
Tanjore	708	11,451	..	1,304	708	12,755
North Coimbatore	97	32,175	..	949	97	33,124
South do.	19·5	4,402	..	53	19·5	4,455
Madura	44·14	8,912	19·50	1,654	63·64	10,566
Tinnevelly	..	..	..	..	..	..
North Malabar	41·50	3,389	..	322	41·50	3,711
South do.	3,612·51	2,25,168	117·24	8,759	3,729·75	2,33,927
South Canara	151·11	20,656	12·08	1,081	163·19	21,737
Total ..	11,918·91	6,09,828	— 275 148·82	25,532	11,792·73	6,35,360
Cultural Operations.						
Direction	..	1,141	..	..	..	1,141
Chingleput	..	..	..	..	..	..
North Arcot	..	..	..	..	..	..
South do.	1,326	770	..	247	1,326	1,017
Salem	..	..	..	..	..	..
Trichinopoly	Mls. 100	28,277	..	718	Mls. 100	28,995
Tanjore	864	1,267	207	473	1,071	1,740
North Coimbatore	..	..	..	..	..	..
South do.	..	..	..	..	..	..
Madura	..	..	..	..	..	..
Tinnevelly	1,062·43	1,596	278·50	587	1,340·93	2,183
North Malabar	109	1,560	..	58	109	1,618
South do.	..	..	..	..	..	..
South Canara	..	28	..	10	..	38
Total ..	3,361·43 Mls. 100	34,639	485·50	2,093	3,846·93 Mls. 100	36,732

ANNUAL FORM NO. 61.

Forest Department, Madras, Southern Circle.

Annual list of Topes and Experimental Gardens, 1888-89.

District.	Range.	Number.	Chief Trees.	Area.	Cost		Remarks.
					During year.	To end of year.	
				ACS.	RS.	RS.	
Chingleput ..	Chingleput	7	Mango, margosa, casuarina, iluppai, cocoanut and Ingadulcis	63	120	7,143	
	Saidápet	1	Kodukaipulli and mango	30	126	831	
	Total ..	8		93	246	7,974	
North Arcot ..	Chittoor	13	Date, tamarind, cocoanut and palmyra	..	226	761	
	Chandragiri	29	Do. do. do.	..	132	276	
	Palmanér	13	Mango, iluppai, tamarind, cocoanut and casuarina.	132	334	7,287	
	Gudiyátam	120-1	Palmyra, do. do. do. ..	61	49	15,448	* 1 tope given over to South Indian Railway.
	Vellore	42	Mango, palmyra and tamarind	504	126	1,143	
	Pólúr	12	Do. do. do.	..	90	281	
	Arcot	113	Mango, palmyra, tamarind and iluppai	..	58	173	
	Wálajáh	37	Do. do. do. do.	46	92	5,672	
	Wandiwash	262	Do. do. do. do.	..	29	35	
	Total ..	640		743	1,136	31,076	
South Arcot ..	No. I. Tiruvannámalai	34	Tamarind, iluppai, nagai, vembu, mango and kattuvagai	118	..	..	
	,, II. Tindivanam	7	Do. do. do. do. ..	35	..	..	
	,, III. Villupuram	14	Tamarind, iluppai, kattuvagai, margosa, mango, sandal and casuarina	77	..	..	
	,, IV. Cuddalore	2	Tamarind, iluppai, karuvelam, mango and nagai ..	12	..	..	
	,, IV. Chidambaram	4	Karuvelam, portia, tamarind, palmyra, and iluppai.	17	..	..	
	,, V. Tirukoilúr	17	Tamarind, margosa, iluppai, mango and vagai ..	33	..	..	
	,, VI. Kallakurchi	9	Tamarind, iluppai, margosa, karuvelam and velvelam	66	..	..	
	,, VII. Vriddháchalam	7	Tamarind, palmyra, mango, banyan, odiyan and konnai	36	..	..	
	Total ..	94		394	..	8,712	
Salem	Salem	64	Mango, tamarind, margosa, nagai, iluppai, cocoanut and vagai	634	..	58,456	
	Atúr	17	Cocoanut, tamarind, iluppai and margosa	188	..	9,357	
	Námakal	16	Cocoanut, tamarind, iluppai, margosa, vagai and mango	58	..	7,164	
	Tiruchengód	14	Mango, cocoanut, tamarind, margosa and iluppai ..	107	..	4,594	

Annual list of Topes and Experimental Gardens, 1888-89—*cont.*

District.	Range.	Number.	Chief Trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
				ACS.	RS.	RS.	
Salem—*cont.* ..	Utankarai	35	Tamarind, mango, nim and palmyra	252	..	31,525	
	Tirupatúr	23	Mango, tamarind, iluppai, vagai and palmyra ..	222	..	8,708	
	Krishnagiri	21	Iluppai, mango, tamarind, margosa, palmyra, karuvelam and nagai	358	..	29,141	
	Dharmapuri	31	Tamarind, illuppai, mango and sandalwood ..	492	..	17,167	
	Hosúr	42	Casuarina, illuppai, punga, nagai, mango and sandalwood	750	..	28,899	
	Total ..	263		3,061	1,583	1,96,011 + 1,583 =1,96,594	
Trichinopoly ..	Trichinopoly	8	Mango, illuppai and sissu	32	8	1,319	
	Kulitalai	4	Tamarind and sissu	21	..	168	
	Musiri	2+1*	Mango and tamarind	* 17	..	..	* One tope (13 acres) handed over by Revenue Department.
	Perambalúr	1	Mango	9	..	292	
	Udayárpálaiyam	1	Do.	2	..	..	
	Total ..	17		81	8	1,779	
Tanjore	....	16	Cocoanut and mango	153	..	..	
North Coimbatore.	Satyamangalam	3	Palmyra	21	..	2,328	
	Kóllegál	4	Karuvelam and tamarind	303	..	576	
	Bhavání	26	Mango, palmyra and karuvelam	372	..	1,799	
	Erode	52	Palmyra, tamarind, velvelam, margosa, cork, cogai and karuvelam	614	100	13,169	
	Dhárápuram	76	Karuvelam, velvelam, tamarind, palmyra, margosa, cocoanut and velam	12,483	..	25	
	Karúr	22	Palmyra, cocoanut and tamarind	247	..	10,882	
	Total ..	183		14,040	100	28,779	
South Coimbatore.	Palladam	6	Palmyra, tamarind, karuvelam, velvelam, teak and sandalwood	101	..	5,197	
	Coimbatore	1	Cocoanut	2	11	11	Handed over by the Revenue Department during the year to the Forest Department for an auxiliary timber depôt.
	Total ..	7		103	11	5,208	

Annual list of Topes and Experimental Gardens, 1888-89—*cont.*

District.	Range.	Number.	Name of tope.	Chief Trees.	Area.	Cost		Remarks.
						During year.	To end of year.	
					ACS.	RS.	RS.	
Madura ..	No. I. Uttamapalaiyam ..	7	..	Tamarind, iluppai, vembu, karuvelam, vagai, mango, bamboo, naval, sandal and mahogany ..	11	47	3,856	
	,, II. Kodaikánal ..	5	..	Tamarind, iluppai, vagai, velam and mahogany ..	19	96	3,096	
	,, III. Dindigul	9	..	Tamarind, mango, iluppai, karuvelam, vagai, naval, palmyra and velvelam	54	..	3,740	
	,, V. Alagar hill	2	..	Margosa, tamarind, vagai, jack, mango, iluppai ..	17	141	1,191	
				Added by the Examiner on account of pay of watchers	..	1,306	1,306	
	Total ..	23	..		101	1,590	13,189	
Tinnevelly ..	Tinnevelly	4	..	Mango, tamarind, gooseberry and palmyra ..	35	90	631	
	Otapidáram	2	..	Mango, bamboo, iluppai and casuarina	11	..	328	
	Sátúr	2	..	Bamboo, naval, vagai and tamarind	3	..	564	
	Sankaranainárkoil	5	..	Mango, iluppai, bamboo and jack	14	1	657	
	Tenkási	8	..	Mango, marudu, vagai, casuarina and tamarind ..	15	..	503	
	Ambásamudram	3	..	Vagai, marudu, margosa, iluppai and tamarind ..	9	..	504	
	Nángunéri	4	..	Mango, iluppai, bamboo, banyan, margosa, vagai and tamarind	19	85	1,049	
	Total ..	28	..		106	176	4,226	
North Malabar ..	Wynaad sub-division ..	1	Experimental garden, Manantoddy.	Eucalyptus, Ceara rubber, cinchona .. .. / Mahogany, sappan, Ficus elastica, bamboos, &c. ..	20	(*b*) 339	2,610	(*b*) Includes Rs. 131 on account of bamboo nursery, &c., as per Examiner's accounts.
	Total ..	1	..		20	339	2,610	
South Malabar ..	Pálghat	2	..	Mango, jack trees and Pongamia glabra	3	..	9	
South Canara ..	....	..	..	....	..	..	..	
	Grand Total ..	1,282	..		18,398	5,189	3,00,156	

Abstract of Form No. 61.

District.	Number.	Area.	Cost		Remarks.
			During year.	To end of year.	
		Acs.	Rs.	Rs.	
Chingleput	8	93	246	7,974	
North Arcot	640	743	1,136	31,076	
South Arcot	94	394	..	8,712	
Salem	263	3,061	1,583	1,96,594	
Trichinopoly	17	81	8	1,779	
Tanjore	16	153	..	..	
North Coimbatore	183	14,040	100	28,779	
South do.	7	103	11	5,208	
Madura	23	101	1,590	13,189	
Tinnevelly	28	106	176	4,226	
North Malabar	1	20	339	2,610	
South do.	2	3	..	9	
South Canara	..	..	..	..	
Total ..	1,282	18,893	5,189	3,00,156	

ANNUAL FORM No. 62.

Forest Department, Madras, Southern Circle.

Area of Forest Tracts protected from fire during 1888-89.

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.				
	Tiruvallúr Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.			
Chingleput ..	Kambakam hills	7,329	2,154 0 0	14,951	..	14,951	447 0 0	2,601 0 0		1883-84	
	Nágalápuram hills	8,345	12 0 0	8,345	6	8,339	153 0 0	165 0 0		1887-88	
	Total ..	15,674	2,166 0 0	23,296	6	23,290	600 0 0	2,766 0 0			
	Specially Protected.										
	Pólúr Range.										
	Karnatic ghur	6,469	1,393 0 0	7,069	600	6,469	140 0 0	1,533 0 0		1881	
	Vellore Range.										
	Tellai	15,101	1,479 0 0	15,101	6	15,095	143 0 0	1,622 0 0		1881	
	Ambúr fuel	3,840	1,108 0 0	3,840	..	3,840	193 0 0	1,301 0 0		1879	
	Palamadi	6,400	455 0 0	6,400	..	6,400	84 0 0	539 0 0		1880	
	Chandragiri Range.										
	Napier	8,772	1,325 0 0	8,772	..	8,772	183 0 0	1,508 0 0		1880	
	Mámandúr	1,776	1,325 0 0	1,776	..	1,776	119 0 0	1,444 0 0		1874	
	Chamala	9,600	265 0 0	9,600	103	9,497	79 0 0	344 0 0		1880	
	Panapak	6,400	214 0 0	6,400	..	6,400	90 0 0	304 0 0		1880	
	Pudipatla bail	2,560	222 0 0	2,560	..	2,560	61 0 0	283 0 0		1880	
North Arcot ..	Mamandur extension	..	..	8,000	..	8,000	24 0 0	24 0 0		1888	
	Chittoor Range.										
	Paradarami	15,182	230 0 0	15,242	..	15,242	66 0 0	296 0 0		1880	
	Airala	5,760	194 0 0	6,400	15	6,385	34 0 0	228 0 0		1880	
	Chittur	360	179 0 0	360	..	360	14 0 0	193 0 0		1882	
	Santapet	2,276	41 0 0	2,276	..	2,276	24 0 0	65 0 0		1882	
	Bommasamudram	786	131 0 0	1,426	..	1,426	25 0 0	156 0 0		1884	
	Chilapalli	1,296	68 0 0	1,296	..	1,296	15 0 0	83 0 0		1884	
	Kinatipalli	1,414	39 0 0	1,417	..	1,417	16 0 0	55 0 0		1884	
	Chittaparai	..	..	4,850	..	4,850	3 0 0	3 0 0		1888	
	Bassavapalli	..	..	2,027	..	2,027	3 0 0	3 0 0		1888	
	Mohimundalam	..	..	2,522	..	2,522	3 0 0	3 0 0		1888	
	Penumore	6,400	..	6,400	..	6,400	2 0 0	2 0 0		1888	Transferred from General Protection.
	Pachigunta	..	..	1,800	..	1,800	2 0 0	2 0 0		1888	
	Virisettipallai	..	..	7,587	..	7,587	3 0 0	3 0 0		1888	

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Palmanér Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
North Arcot—*cont.*	Mottana	16,600	671 0 0	16,000	..	16,000	139 0 0	810 0 0	1884	
	Musalimadugu	9,600	204 0 0	9,600	..	9,600	64 0 0	268 0 0	1884	
	Peddur	9,600	541 0 0	9,600	1,280	8,320	112 0 0	653 0 0	1880	
	Basvireddipalli	10,240	192 0 0	10,240	..	10,240	56 0 0	248 0 0	1884	
	Naikeneri	6,092	504 0 0	6,400	307	6,093	123 0 0	627 0 0	1884	
	Chargul	..	..	19,200	..	19,200	12 0 0	12 0 0	1888	
	Peddinayandrug	..	..	12,800	..	12,800	12 0 0	12 0 0	1888	
	Gudiyátam Range.									
	Ambúr droog	5,760	67 0 0	5,760	..	5,760	75 0 0	142 0 0	1880	
	Arcot Range.									
	Punganúr	3,630	1,370 0 0	3,630	9	3,621	189 9 9	1,559 0 0	1884	
	Javadi Hill Range.									
	Putrakad block	19,200	751 0 0	19,200	..	19,200	45 0 0	796 0 0	1881	Transferred from General Protection.
	Puttur do.	12,800	375 0 0	12,800	..	12,800	45 0 0	420 0 0	1879	
	Virappanur do.	64,000	..	64,000	..	64,000	45 0 0	45 0 0	1886	
	Malayalam do.	12,800	35 0 0	12,800	200	12,600	18 0 0	53 0 0	1887	
	Wálajápet Range.									
	Ammanur	203	3 0 0	203	..	203	..	3 0 0	1880	
	Banavaram	1,051	53 0 0	1,051	..	1,051	..	53 0 0	1880	
	Total	265,368	13,434 0 0	326,405	2,520	323,885	2,261 0 0	15,695 0 0		
	General Protection.									
	Pólúr Range.									
	Kapalúr	1,267	..	1,267	..	1,267	..	..	1884	
	Kilúr	3,537	..	3,537	..	3,537	..	..	1884	
	Alliyamangalam	10,062	..	10,062	3	10,059	..	..	1884	
	Vellore Range.									
	Amerdi plantation	25	..	25	..	25	..	..	1884	
	Ambúr tope	5	..	5	..	5	..	..	1884	
	Chandragiri Range.									
	Gazerlamandiyam plantation	250	..	250	..	250	..	..	1884	
	Tirupati Hill block	..	..	16,000	..	16,000	..	..	1888	

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS A. P.	RS. A. P.		
	Gudiyátam Range.									
	Vikramasi	161	17 0 0	161	..	161	..	17 0 0	1882	
	Tiruvallam plantation	435	..	435	..	435	..	..	1884	
	Virinjipuram do.	260	..	260	..	260	..	..	1884	
	Amuudi do.	160	..	160	..	160	..	..	1884	
	Cheynur tope	130	..	130	..	130	..	..	1884	
	Tandrayaguuta tope	2	..	2	..	2	..	..	1884	
	Palmanér Range.									
	Palmanér tope	2	..	2	..	2	..	..	1884	
	Nagamangalam	31	..	31	..	31	..	..	1884	
	Piduguvaripalle	20	..	20	..	20	..	..	1884	
	Vengatagirikóta	4	..	4	..	4	..	..	1884	
	Baireddipalle tope	4	..	4	..	4	..	..	1884	
	Arcot Range.									
	Kilminnel plantation	150	..	150	..	150	..	..	1884	
	Satór	1,048	..	1,048	..	1,048	..	..	1884	
	Sennaleri	1,675	..	1,675	..	1,675	..	..	1884	
North Arcot—*cont.*	Enadivadi	1,567	..	1,567	..	1,567	..	..	1884	
	Tandayappentangal	1,112	..	1,112	..	1,112	..	..	1884	
	Sholavaram	1,232	..	1,232	..	1,232	..	..	1884	
	Wandiwash Range.									
	Pannur	940	..	940	..	940	..	..	1880	
	Venkundram	1,288	..	1,288	..	1,288	..	..	1880	
	Badur	873	..	873	..	873	..	..	1880	
	Nambedu	720	..	720	..	720	..	..	1880	
	Kodiyalam	125	..	125	..	125	..	..	1880	
	Nedungal	3,645	..	3,645	..	3,645	..	..	1883	
	Vishamangalam	1,148	..	1,148	..	1,148	..	..	1883	
	Nedungunam	1,797	..	1,797	..	1,797	..	..	1883	
	Bramhakateri	635	..	635	..	635	..	..	1883	
	Wálajápet Range.									
	Gúdalúr	535	..	535	..	535	..	..	1880	
	Kolatúr	1,779	..	1,779	..	1,779	..	..	1884	
	Urayur or Anántapuram	540	..	540	..	540	..	..	1880	
	Ammur	3,520	..	6,020	..	6,020	..	..	1884	
	Minnel	1,378	..	1,378	..	1,378	..	..	1884	

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Wálajápet Range—cont.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.		
North Arcot—*cont.*	Vanavedu plantation	30	..	30	..	30	..	..	1884	
	Arkónam tope	37	..	37	..	37	..	..	1884	
	Arkónam Sub-Magistrate's compound	5	..	5	..	5	..	..	1884	
	Arkónam Head Assistant Collector's compound	4	..	4	..	4	..	..	1884	
									1884	
	Total ..	42,138	17 0 0	60,638	3	60,635	..	17 0 0		
	Total of the District ..	307,506	13,451 0 0	387,043	2,523	384,520	2,261 0 0	15,712 0 0		
	Tiruvannámalai Range.									
South Arcot ..	Annamalai reserved forest	1,738	..	1,760	150	1,610	69 0 0	..	1878	
	Kavuttimalai	5,325	..	6,000	3	5,997	179 0 0	..	1878	
	Tenmalai	20,000	..	20,000	380	19,620	9 0 0	..	1877	
	Mudinai reserved forest	4,000	..	..	..	..	112 0 0	..	1883	
	Valasamalai	7,000	..	7,000	..	7,000	..	..	1883-84	
	Damarakadu	8,000	..	..	..	..	20 0 0	..	1884	
	Chinnasamudram	6,000	..	..	..	..	29 0 0	..	1878	
	Perungolaturswamimalai reserved forest, including 2,000 acres in Kallakurchi taluk	8,700	..	11,000	..	11,000	..	..		
	Pelamaradur	..	..	8,000	..	8,000	..	..	1889	
	Nallapattu	..	..	7,000	..	7,000	..	..	1889	
	Kallakurchi Range.									
	Tagarai, Lutchimipuram Kalroyen slopes	15,000	..	15,000	..	15,000	234 0 0	..	1889	
	Parigam Kambattumalai	1,000	..	..	..	..	..	..	1885-86	
	Total ..	76,763	4,423 0 0	75,760	533	75,227	652 0 0	5,075 0 0		
	Special Protection.									
	Salem Range.									
Salem	Vadugampatti block, No. I	1,976	1,620 0 0	1,976	..	1,976	246 0 0	1,866 0 0	1881	Renewed tracing, 8 miles.
	Morur do. ,, II	799	812 0 0	799	..	799	61 0 0	873 0 0	1881	Do. do. 5½ ,,
	Mallapuram do. ,, III	587	825 0 0	587	..	587	128 0 0	953 0 0	1881	Do. do. 5 ,,

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	Salem Range—cont.									
Salem—*cont.*	Ammaneri block, No. VIII	252	295 0 0	252	..	252	72 0 0	367 0 0	1882	Renewed tracing, 3½ mls.
	Pillapallikombai block, No. VII ..	981	522 0 0	981	..	981	96 0 0	618 0 0	1882	Do. do. 6 ,,
	Kariyappakombai do. ,, VI ..	531	364 0 0	531	..	531	110 0 0	474 0 0	1882	Do. do. 4 ,,
	Kangeri block, No. XII	1,929	506 0 0	1,929	..	1,929	143 0 0	649 0 0	1883	Do. do. 9½ ,,
	Pannikaradu block, No. XIV	2,645	1,244 0 0	2,645	..	2,645	145 0 0	1,389 0 0	1883	Do. do. 10½ ,,
	Karuvattuparai block, No. XV ..	837	760 0 0	837	..	837	126 0 0	886 0 0	1884	Do. do. 6½ ,,
	Putting out fire in Kurumbapatti reserve	..	..	..	..	..	2 0 0	2 0 0	..	
	Uttankarai Range.									
	Uttankarai block, No. IX	469	494 0 0	469	..	469	116 0 0	610 0 0	1881	Fire traced first, 1½ ,, Renewed tracing, 1½ ,,
	Singarapet do. ,, X	2,624	1,546 0 0	2,624	..	2,624	193 0 0	1,739 0 0	1881	Do. do. 12 ,,
	Harûr block, No. XI	1,176	833 0 0	1,176	..	1,176	150 0 0	983 0 0	1882	Do. do. 8½ ,,
	Tirupatûr Range.									
	Kotur block, No. XXI	1,213	179 0 0	1,213	..	1,213	67 0 0	246 0 0	1885	Renewed tracing, 5½ ,,
	Krishnagiri Range.									
	Burgur block, No. IV	220	308 0 0	220	..	220	62 0 0	370 0 0	1883	Do. do. 4 ,,
	Pudur do. ,, V	1,069	768 0 0	1,069	..	1,069	96 0 0	864 0 0	1883	Do. do. 6 ,,
	Tograpalle block, No. XIII	499	142 0 0	499	..	499	53 0 0	195 0 0	1884	Do. do. 4½ ,,
	Hosûr Range.									
	Melgiri block, No. XVI..	5,461	444 0 0	5,461	..	5,461	107 0 0	551 0 0	1885	Do. do. 13½ ,,
	Kanavoi Kottapalle block, No. XVII..	742	151 0 0	742	..	742	30 0 0	181 0 0	1885	Do. do. 4 ,,
	Gulhatti block, No. XVIII	3,248	318 0 0	3,248	..	3,248	88 0 0	406 0 0	1885	Do. do. 11 ,,
	Munchi do. ,, XIX	3,305	345 0 0	3,305	..	3,305	65 0 0	410 0 0	1885	Do. do. 10 ,,
	Kanavanagasamudram block, No. XX.	416	161 0 0	416	..	416	26 0 0	187 0 0	1885	Do. do. 4 ,,
	Total of the District ..	30,979	12,637 0 0	30,979	..	30,979	2,182 0 0	14,819 0 0		

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Musiri.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.		
Trichinopoly ..	Sengattupatti	3,000	126 0 0	3,000	..	3,000	..	126 0 0		
	Manmalai	3,000	111 0 0	3,000	..	3,000	..	111 0 0	1885-86	
	Kanapadi, T.	12,000	49 0 0	12,000	110	11,890	..	49 0 0	1887-88	
	Kampankadu	2,000	34 0 0	1,500	..	1,500	..	34 0 0	1887-88	
	Melúr	3,000	168 0 0	3,000	..	3,000	..	168 0 0	1885-86	
	Kanapadi, V.	10,000	76 0 0	10,000	..	10,000	..	76 0 0	1887-88	
	Palamalai	..	..	10,000	..	10,000	60 0 0	60 0 0	1888-89	
	Perambalúr.									
	Manalodai	4,000	40 0 0	..	..	..	8 0 0	48 0 0	1885-86	
	Salamatti	6,950	1,045 0 0	7,000	..	7,000	142 0 0	1,187 0 0	1885-86	
	Valaiyur	..	..	..	..	..	4 0 0	4 0 0	1888-89	
	Total of the District ..	43,950	1,649 0 0	49,500	110	49,390	214 0 0	1,863 0 0		
Tanjore	.....	*Nil.*								
	Kollegál.									
North Coimbatore.	I. Jadatallahulla	361	260 0 0	361	..	361	50 0 0	310 0 0	1884-85	
	II. Udayárpálaiyam	297	223 0 0	297	..	297	74 0 0	297 0 0	1884-85	
	III. Bailúr	1,186	451 0 0	1,186	..	1,186	57 0 0	608 0 0	1879-80	
	Satyamangalam.									
	IV. Gairmalai	520	43 0 0	..	..	..	..	43 0 0	1885-86	
	Total of the District ..	2,364	977 0 0	1,844	..	1,844	181 0 0	1,158 0 0		
South Coimbatore	No. I. Tunakadavu Range	3,408	1,913 0 0	24,000	350	23,650	577 0 0	2,490 0 0	1882-83	The expenditure incurred in No. II was for the purpose of protecting a block in No. I which adjoins.
	,, II. Pollachi do.	..	..	..	..	..	82 0 0	82 0 0	1888-89	
	,, III. Punachi do.	3,140	1,264 0 0	3,140	..	3,140	201 0 0	1,465 0 0	1882-83	
	,, IV. Udamalpet do.	485	280 0 0	485	..	485	49 0 0	329 0 0	1883-84	
	,, VII. Bolampatti do.	6,400	966 0 0	16,557	..	16,557	359 0 0	1,325 0 0	1884-85	
	,, VIII. Sholakarai do.	3,000	1,399 0 0	3,000	..	3,000	181 0 0	1,580 0 0	1883-84	
	Total of the District ..	16,433	5,822 0 0	47,182	350	46,832	1,449 0 0	7,271 0 0		

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Special Protection.									
	Reserved Forests.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.		
	No I. Uttamapalaiyam Range.									
	Vannatiparai	27,473	836 0 0	27,481	..	27,481	524 0 0	1,360 0 0	1884-85	
	Suranganar	3,616		3,616	50	3,566	113 0 0		1885-86	
	Melagudalur	1,280	744 0 0	1,280	..	1,280	..	1,179 0 0	1885-86	
	Pandaratorai	300		300	..	300	..		1886-87	
	Machakal	2,560		2,560	250	2,310	322 0 0		1886-87	
	No. II. Kodaikánal Range.									
	Pambar	4,455	2,925 0 0	4,755	10	4,745	490 0 0	3,415 0 0	1883-84	
	Sengalvarai Ar	5,009	406 0 0	5,209	15	5,194	195 0 0	601 0 0	1885-86	
	Pumbarai and Vilapati valley	13,562	1,121 0 0	13,587	..	13,587	215 0 0	1,336 0 0	1885-86	
	Kudirai Ar and Kukkal	19,704	386 0 0	19,704	..	19,704	308 0 0	694 0 0	1886-87	
	Oliyanutu Oddai	..	..	3,200	..	3,200	20 0 0	20 0 0	1888-89	
	Perumalmalai	7,700	1,628 0 0	12,800	..	12,800	514 0 0	2,142 0 0	1883-84	Transferred from Reserved lands.
	Amburuvi	3,840	36 0 0	3,840	..	3,840	14 0 0	50 0 0	1886-87	Transferred from General Protection.
	No. III. Dindigul Range.									
Madura	Sirumalai	25,509	1,315 0 0	25,529	240	25,289	583 0 0	1,898 0 0	1885-86	
	Mudumalai	6,086	423 0 0	6,086	..	6,086	212 0 0	635 0 0	1884-85	
	No. V. Alagar Hill.									
	Alagarmalai	13,036	6,317 0 0	17,510	116	17,394	549 0 0	6,866 0 0	1882-83	
	Reserved Lands.									
	No. II. Kodaikánal Range.									
	Mudugamalai Fuel and Fodder reserve.	3,227	806 0 0	3,227	..	3,227	94 0 0	900 0 0	1884-85	
	Arankanal	2,410	549 0 0	2,560	..	2,560	..	549 0 0	1883-84	
	Kallar	9,600	516 0 0	9,600	..	9,600	348 0 0	864 0 0	1885-86	
	No. III. Dindigul Range.									
	Karandamalais	22,400	33 0 0	22,400	..	22,400	..	33 0 0	1887-88	
	Panjantangi	3,200	42 0 0	3,200	..	3,200	..	42 0 0	1887-88	

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	IV. Mettupatti Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	Waggatumalai Fuel and Fodder reserve	4,200	497 0 0	4,200	..	4,200	229 0 0	726 0 0	1884-85	
	Kachakatti Do. do.	1,694	30 0 0	1,694	..	1,694	..	30 0 0	1884-85	
	General Protection.									
Madura—*cont* ..	*No. II. Kodaikánal Range.*									
	Kodaikánal scattered plantation ..	3	12 0 0	3	..	3	..	12 0 0	1883-84	
	Do. Acacia do.	5	7 0 0	5	..	5	..	7 0 0	1883-84	
	Do. Pumbarai do.	6	3 0 0	6	..	6	2 0 0	5 0 0	1883-84	
	Parappa	42	22 0 0	42	..	42	18 0 0	40 0 0	1884-85	
	Gunden shola	54	14 0 0	54	..	54	15 0 0	29 0 0	1886-87	
	Total of the District ..	180,971	18,668 0 0	194,448	681	193,767	4,765 0 0	23,433 0 0		
	Special Protection.									
	Southern Range.									
	Ambásamudram Taluk—									
	(i) Block between Surveyar and Kariyar rivers, Pápanásam hills.	9,077	2,664 0 0	10,477	..	10,477	506 0 0	3,170 0 0	1884-85	
	(ii) Block between Surveyar, Kurampandi Teri, and Mutri Mottai.	900	695 0 0	1,200	..	1,200	402 0 0	1,097 0 0	1885-86	
	(iii) Alwarkurchi block	7,690	821 0 0	7,690	..	7,690	501 0 0	1,322 0 0	1886-87	
	(iv) Surveyar-Kariyar extension to the foot of the hills.	1,920	327 0 0	1,920	..	1,920	228 0 0	555 0 0	1887-88	
Tinnevelly ..	Nanguneri Taluk—									
	(v) Block of forests in the Kalakad hills.	8,320	1,416 0 0	8,320	500	7,820	243 0 0	1,659 0 0	1885-86	
	(vi) Do. do. ..	12,060	944 0 0	..	..	..	496 0 0	1,440 0 0	1886-87	
	Central Range.									
	Tenkási Taluk—									
	(i) Kuttálam block	5,120	262 0 0	5,120	..	5,120	422 0 0	684 0 0	1887-88	
	(ii) Kodiyanallúr block	2,560	157 0 0	2,560	..	2,560	216 0 0	373 0 0	1887-88	

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Central Range—cont.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
Tinnevelly—*cont.*	Tenkási Taluk—*cont.*									
	(iii) Boundary between Chokampatti and Government forests.	3 miles.	145 0 0	..	..	..	..	145 0 0	1885-86	No cost is debited under A VIII (*c*) during the year, on account of these boundary lines, it having been debited to VIII (*a*), as their primary object is to distinguish the boundary. However they serve as fire lines at the same time.
	(iv) Boundary between Viranankulam and Government forests.	10 miles.	310 0 0	..	..	..	..	310 0 0	1885-86	
	Northern Range.									
	Sankaranainárkoil Taluk—									
	(i) Boundary between Tirumalanaickan Pudukudi and Government forests.	3 miles.	30 0 0	..	..	..	..	30 0 0	1885-86	
	(ii) Puliangudi and Chinthamony block.	..	..	37,292	..	37,292	850 0 0	850 0 0	1888-89	
	General Protection.									
	Northern Range.									
	Srivilliputúr	..	..	..	..	..	15 0 0	15 0 0	1888-89	
	Central Range.									
	Tenkási	..	..	..	..	..	11 0 0	11 0 0	1888-89	
	Southern Range.									
	Ambásamudram	..	..	..	..	..	1 0 0	1 0 0	1888-89	
	Nángunéri	..	..	..	..	..	25 0 0	25 0 0	1888-89	
	Total of the District ..	47,647 Mls. 16	7,771 0 0	74,579	500	74,079	3,916 0 0	11,687 0 0		
North Malabar ..	Begúr	13,963	3,109 0 0	15,366	10,244	5,122	893 0 0	4,002 0 0	1882-83	
	Kurchiyat	17,754	174 0 0	18,054	18,054	..	317 0 0	491 0 0	1887-88	
	Total of the District ..	31,717	3,283 0 0	33,420	28,298	5,122	1,210 0 0	4,493 0 0		

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.				
	SPECIAL PROTECTION.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.			
	Nilambúr.										
South Malabar ..	Karimpoya Reserve	3,955	493 0 0	3,955	..	3,955	249 0 0	742 0 0		1884-85	
	Amarampalaiyam Reserve	468	286 0 0	468	60	408	91 0 0	377 0 0		1860-61	
	Chatambarai do.	700	205 0 0	700	..	700	118 0 0	323 0 0		1872-73	
	Nellikutta do.	1,824	527 0 0	1,824	..	1,824	137 0 0	664 0 0		1883-84	
	Teak plantations do.	2,500	1,761 0 0	2,702	..	* 2,702	512 0 0	2,273 0 0		1842-43	* Inclusive of the new teak plantations and blocks II and III.—202 acres.
	Pálghat.										
	Wálayár Reserve	3,017	4,444 0 0	3,017	55	2,962	378 0 0	4,822 0 0		1873-74	
	Chenat Nair	15,203	845 0 0	15,203	50	15,153	402 0 0	1,247 0 0		1884-85	
	Total of the District ..	27,667	8,561 0 0	27,869	165	27,704	1,887 0 0	10,448 0 0			
	SPECIAL PROTECTION.										
	Koondapoor Range.										
	Sabladi	208	86 0 0	208	..	208	38 0 0	124 0 0		1884-85	
	Sarpanamanekadu and Goligundi guddi reserved lands.	50	46 0 0	150	..	150	37 0 0	83 0 0		1886-87 and 1887-88	
	Udipi Range.										
	Pillarkan	320	81 0 0	320	..	320	27 0 0	108 0 0		1883-84	
	Chinkramale	2,558	542 0 0	2,560	2	2,558	91 0 0	633 0 0		1885-86 and 1886-87.	
South Canara ..	Manajikadu	420	221 0 0	423	..	423	129 0 0	350 0 0		1886-87	
	Tenkahola	2,068	324 0 0	2,039	..	2,039	58 0 0	382 0 0		1886-87	
	Mangalore Range.										
	Chembugudde	75	19 0 0	75	..	75	5 0 0	24 0 0		1884-85	
	Kuttiyar	25	12 0 0	25	..	25	3 0 0	15 0 0		1884-85	
	Poitagi Kayarpalle	96	22 0 0	96	..	96	7 0 0	29 0 0		1885-86	
	Uppinangadi Range.										
	Darmastalamandaji reserve	2,460	133 0 0	9,600	4	9,596	327 0 0	460 0 0		1887-88 1888-89	2,460 acres. 7,140 do.

Area of Forest Tracts protected from fire during 1888-89—*cont.*

District.	Forest Tract.	Up to 31st March 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Kásaragód Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
South Canara—*cont.*	Parappa	50	133 0 0	52	..	52	14 0 0	147 0 0	1885-86	
	Total of the District ..	8,330	1,619 0 0	15,548	6	15,542	736 0 0	2,355 0 0		
	Grand Total ..	790,001 Mls. 16	81,027 0 0	961,468	33,172	928,296	20,053 0 0	101,080 0 0		
				ABSTRACT.						
Chingleput	....	15,674	2,166 0 0	23,296	6	23,290	600 0 0	2,766 0 0		
North Arcot ..	....	307,506	13,451 0 0	387,043	2,523	384,520	2,261 0 0	15,712 0 0		
South Arcot ..	....	76,763	4,423 0 0	75,760	533	75,227	652 0 0	5,075 0 0		
Salem	....	30,979	12,637 0 0	30,979	..	30,979	2,182 0 0	14,819 0 0		
Trichinopoly ..	....	43,950	1,649 0 0	49,500	110	49,390	214 0 0	1,863 0 0		
Tanjore	....	..	..	..	..	..	..	..		
North Coimbatore ..	....	2,364	977 0 0	1,844	..	1,844	181 0 0	1,158 0 0		
South Coimbatore ..	....	16,433	5,822 0 0	47,182	350	46,832	1,449 0 0	7,271 0 0		
Madura	....	180,971	18,668 0 0	194,448	681	193,767	4,765 0 0	23,433 0 0		
Tinnevelly	....	47,647 16 miles.	7,771 0 0	74,579	500	74,079	3,916 0 0	11,687 0 0		
North Malabar ..	....	31,717	3,283 0 0	33,420	28,298	5,122	1,210 0 0	4,493 0 0		
South Malabar ..	....	27,667	8,561 0 0	27,869	165	27,704	1,887 0 0	10,448 0 0		
South Canara ..	....	8,330	1,619 0 0	15,548	6	15,542	736 0 0	2,355 0 0		
	Total ..	790,001 Mls. 16	81,027 0 0	961,468	33,172	928,296	20,053 0 0	1,01,080 0 0		
							Charged in previous years	60,315 0 0		
							Do. do. 1887-88	20,712 0 0		
							Do. do. 1888-89	20,053 0 0		
							Total ..	1,01,080 0 0		

Annual Form No. 63.

Forest Department, Madras, Southern Circle.

Prosecutions for Breaches of Forest Rules during 1888-89.

District.	Cases pending from 1887-88.	New cases of the year.					Total Cases.	Disposed of during the year.										Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Compounded.		Withdrawn.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Chingleput	1	2	6	..	1	9	10	6	16	4	25	..	..	..	..	10	41	..
North Arcot	4	5	100	60	14	179	183	42	91	39	126	97	255	..	..	178	472	5
South Arcot	36	2	73	23	25	123	159	38	118	11	42	60	193	..	..	109	353	50
Salem	32	6	379	191	34	610	642	244	672	127	608	158	513	53	204	582	1,997	60
Trichinopoly	34	3	537	16	125	681	715	206	248	42	62	426	950	..	..	674	1,260	41
Tanjore	20	..	72	..	..	72	92	44	61	6	17	33	82	..	..	83	160	9
North Coimbatore	7	1	13	4	3	21	28	17	29	8	49	2	5	1	4	28	87	..
South Coimbatore	11	1	36	31	6	74	85	21	73	7	32	32	134	22	18	82	257	3
Madura—Under Forest Act ..	7	4	48	..	5	57	64	22	65	18	69	11	11	..	..	51	145	13
Tinnevelly .. Under Forest Act ..	..	3	29	6	3	41	41	23	57	15	42	3	11	..	..	41	110	..
Tinnevelly .. Under Penal Code ..	6	..	5	2	43	50	56	46	131	5	52	..	..	..	..	51	183	5
North Malabar	1	3	28	10	13	54	55	26	86	7	17	20	27	..	..	53	130	2
South Malabar. Under Forest Act. ..	..	2	10	..	7	25	26	17	36	8	13	1	3	..	..	26	52	..
South Malabar. Under Penal Code ..	1	..	4	..	2													
South Canara	13	1	160	..	44	205	218	108	144	37	81	54	85	..	..	199	310	19
Total ..	173	33	1,500	343	325	2,201	2,374	860	1,827	334	1,235	897	2,269	76	226	2,167	5,557	207

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of Revenue of the different districts, 1888-89.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
RECEIPTS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government agency—															
(*a*) Timber	..	3	4,560	1,369	740	95	..	..	39,883	4,404	3,588	22,400	42,642	8,163	1,27,847
(*b*) Firewood and charcoal	..	4,845	3,941	6,169	397	15,321	4	..	40	7,027	3,716	..	61	1,186	42,707
(*c*) Bamboos	..	..	..	1	54	40	..	..	..	..	423	..	1,131	..	1,649
(*d*) Sandalwood ..	..	..	10,145	81	338	..	..	..	..	..	..	..	..	..	10,564
(*e*) Grass and other minor produce ..	..	..	..	143	..	195	..	..	5,557	43	793	355	324	58,067	65,477
II. Timber and other produce removed from the forests by consumers or purchasers—															
(*a*) Timber	..	6,719	19,799	7,901	21,305	7,290	361	6,270	6,030	21,942	5,010	3,671	2,957	3,379	1,12,634
(*b*) Firewood and charcoal	..	11,779	41,847	21,244	24,177	6,939	4,640	6,699	13,897	7,334	29,355	..	3,164	5,289	1,76,364
(*c*) Bamboos	..	390	19,441	2,136	29,076	4,695	234	11,264	7,445	3,225	510	296	928	919	80,559
(*d*) Grazing and fodder grass	..	2,695	3,318	1,930	5,257	5,893	751	23,336	6,341	2,462	312	..	101	..	52,396
(*e*) Other minor produce.	..	2,314	17,633	23,670	63,018	7,485	5,359	27,194	6,217	34,047	18,099	2,528	32	881	2,08,477
III. Confiscated drift and waifwood	..	42	323	265	783	155	24	64	103	1,022	308	..	281	363	3,733
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—															
(*a*) Fines and forfeitures	..	20	13	11	104	..	8	..	44	17	199	..	25	..	441
(*b*) Refunds	875	20	75	9	1,525	..	..	25	278	618	703	129	478	3	4,738
(*c*) Other sources ..	..	64	1,077	645	1,620	1,634	473	47	1,496	237	356	1,063	973	815	10,500
Total, Receipts ..	875	28,891	1,22,172	65,574	1,48,394	49,742	11,854	74,899	87,331	82,378	63,372	30,442	53,097	79,065	8,98,086

MADRAS,
The 11th June 1889.

C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of Expenditure of the different districts, 1888-89.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
A.—*Conservancy and Works.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government agency—															
(*a*) Timber	..	..	3,203	794	1,097	..	..	..	16,774	3,015	4,269	117	8,500	7,062	44,831
(*b*) Firewood and charcoal ..	..	69	1,745	1,878	108	7,204	..	..	225	2,691	255	..	..	994	15,169
(*c*) Bamboos	..	..	..	..	47	2	..	..	..	..	149	..	..	..	198
(*d*) Sandalwood	..	..	930	18	463	..	..	..	..	..	..	..	..	..	1,411
(*e*) Grass and other minor produce	..	..	66	79	..	86	..	..	3,694	1	972	184	222	29,458	34,762
II. Timber and other produce removed from the forests by consumers or purchasers	394	1,089	5,840	2,875	11,182	2,508	647	6,977	3,258	4,165	3,894	..	10	3,755	46,594
III. Confiscated drift and waifwood ..	..	1	10	21	36	2	..	1	2	105	13	2	3	5	201
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government ..	..	..	..	..	10	..	..	..	2,500	..	..	..	889	..	3,399
VI. Live-stock, stores, tools and plant—															
(*a*) Purchase of cattle	..	..	..	..	..	104	..	..	..	..	..	154	1,451	..	1,709
(*b*) Feed and keep of cattle ..	..	..	..	16	..	888	..	..	1,163	686	..	1,514	3,718	..	7,985
(*c*) Stores, tools and plant ..	7	86	11,076	968	84	421	20	180	51,338	237	345	75	278	75	65,190
VII. Communications and buildings—															
(*a*) Roads and bridges ..	..	300	2,094	273	..	38	..	52	6,304	3,178	3,221	338	547	..	16,345
(*b*) Buildings	..	337	975	598	659	308	2	972	377	1,769	2,645	2,119	7,808	130	18,699
(*c*) Other works	..	1	..	314	..	..	..	..	146	..	2	265	76	..	804
VIII. Demarcation, improvement and extension of forests—															
(*a*) Demarcation	..	1,312	1,472	513	6,282	437	28	1,615	54	971	1,913	340	258	996	16,191
(*b*) Compensation for land and rights	..	23	218	531	80	..	..	..	..	342	217	..	..	..	1,411
(*c*) Surveys and working plans,	41,036	24	13	7	755	294	310	..	478	500	725	25	23	1,008	45,198
(*d*) Plantations	..	1,203	6,385	2,137	1,583	4,040	1,777	1,049	64	3,244	763	719	8,759	1,091	32,814
(*e*) Protection from fire ..	..	600	2,261	652	2,182	214	..	181	1,449	4,765	3,916	1,210	1,887	736	20,053
(*f*) Other works	..	1,597	5,476	4,501	5,466	3,601	1,812	1,713	648	258	4,111	59	715	321	30,278
IX. Miscellaneous—															
(*a*) Refunds	1	99	1,163	673	479	128	3	39	19	165	16	..	..	213	2,998
(*b*) Law charges	..	..	60	1	2	..	6	..	7	..	19	1,372	60	53	1,580
(*c*) Other charges	21	15	28	19	68	13	3	6	26	1	122	22	47	58	449
Total, A.—Conservancy and Works ..	41,459	6,756	43,015	16,868	30,583	20,288	4,608	12,785	88,526	26,093	27,567	8,515	35,251	45,955	4,08,269

Summary of Expenditure of the different districts, 1888-89—*cont.*

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
B.—*Establishments.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward—Total, A.—Conservancy and Works ..	41,459	6,756	43,015	16,868	30,583	20,288	4,608	12,785	88,526	26,093	27,567	8,515	35,251	45,955	408,269
I. Salaries—															
(*a*) Conservators ..	14,822	..	..	..	..	..	..	..	..	..	..	..	..	..	14,822
(*b*) Superior officers ..	18,538	3,000	6,600	8,800	10,016	2,356	403	9,600	8,226	8,607	6,566	9,410	7,150	5,400	1,04,672
(*c*) Subordinate forest and depôt establishments	3,273	3,292	10,775	10,776	12,619	6,297	1,326	5,809	9,056	7,448	6,462	4,578	4,461	5,304	91,476
(*d*) Office establishments	18,441	1,236	2,574	2,598	3,031	1,798	578	2,725	2,902	2,152	2,171	2,622	1,604	2,355	46,787
(*e*) Deputation and special allowances.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
II. Travelling allowances—															
(*a*) Conservators ..	3,159	..	..	..	..	..	..	..	..	..	..	..	..	..	3,159
(*b*) Superior officers ..	4,351	1,408	1,878	1,350	1,855	576	..	1,800	1,648	2,040	1,790	1,800	1,396	1,440	23,332
(*c*) Subordinate forest and depôt establishments ..	1,393	781	3,152	2,708	3,755	2,235	300	1,978	2,812	1,976	1,772	1,319	1,400	1,576	27,217
(*d*) Office establishments	3,079	112	280	212	204	120	43	433	256	301	259	160	152	230	5,841
III. Contingencies—															
(*a*) Stationery	64	..	..	..	..	..	..	1	..	..	..	..	..	..	65
(*b*) Carriage of tents and records	829	53	118	61	257	60	10	119	47	111	124	4	3	333	2,129
(*c*) Rents, rates and taxes	705	..	6	364	58	263	..	47	..	13	2	..	..	1	1,459
(*d*) Pay of police guards.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Official postage ..	1,022	186	412	679	985	361	121	441	251	506	445	176	138	645	6,368
(*f*) Sundries	1,264	161	470	902	694	173	36	455	865	415	524	343	103	131	6,536
Total, B.—Establishments ..	70,940	10,229	26,265	28,450	33,474	14,239	2,817	23,408	26,063	23,569	20,115	20,412	16,467	17,415	3,33,863
Grand Total of Expenditure ..	1,12,399	16,985	69,280	45,318	64,057	34,527	7,425	36,193	1,14,589	49,662	47,682	28,927	51,718	63,370	7,42,132

MADRAS,
The 11th June 1889.

C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 65.

Forest Department, Madras, Southern Circle.

Outstandings and Liabilities on account of Contractors and Disbursers for 1888-89.

District.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Conservator, Southern Circle	..	2,246 3 8	2,246 3 8	180 7 9	2,150 3 7	2,330 11 4	84 7 8	..	
Three-fifths of Examiner's office	..	516 0 3	516 0 3	36 3 4	486 13 9	523 1 1	7 0 10	..	
Forest Settlement-officer, Chingleput, &c. ..	..	416 1 4	416 1 4	20 0 0	433 1 7	453 1 7	37 0 3	..	
Forest Settlement-officer, Salem, &c.	..	....	....	....	....	....	....	..	
Forest School, Dehra Dun	..	371 0 0	371 0 0	37 0 0	420 0 0	457 0 0	86 0 0	..	
Chingleput	..	6,690 15 11	6,690 15 11	208 7 1	6,613 10 8	6,822 1 9	131 1 10	..	
North Arcot	..	40,013 2 6	40,013 2 6	152 10 2	39,898 3 7	40,050 13 9	37 11 3	..	
South do.	..	33,165 15 7	33,165 15 7	1,013 15 3	34,706 8 8	35,720 7 11	2,554 8 4	..	
Salem	..	49,666 13 1	49,666 13 1	735 7 7	49,723 13 4	50,459 4 11	792 7 10	..	
Trichinopoly	..	27,575 2 5	27,575 2 5	235 14 3	28,186 15 11	28,422 14 2	847 11 9	..	
Tanjore	..	6,230 2 3	6,230 2 3	37 0 9	6,208 9 4	6,245 10 1	15 7 10	..	
North Coimbatore	..	19,281 11 8	19,281 11 8	1,859 10 4	18,257 4 1	20,116 14 5	835 2 9	..	
South do.	..	33,590 3 9	33,590 3 9	1,072 15 7	33,480 13 5	34,553 13 0	963 9 3	..	
Madura	..	38,349 4 7	38,349 4 7	2,412 13 3	37,213 3 9	39,626 1 0	1,276 12 5	..	
Tinnevelly	..	40,028 10 3	40,028 10 3	3,140 14 4	39,541 3 11	42,682 2 3	2,653 8 0	..	
North Malabar	..	6,709 0 8	6,709 0 8	2,197 6 7	5,465 9 8	7,663 0 3	953 15 7	..	
South do.	..	20,794 1 3	20,794 1 3	5,857 6 10	15,833 9 8	21,691 0 6	896 15 3	..	
South Canara	..	47,929 13 1	47,929 13 1	5,648 7 9	51,620 7 9	57,268 15 6	9,339 2 5	..	
Total ..	..	3,73,574 6 3	3,73,574 6 3	24,846 12 10	3,70,240 4 8	3,95,087 1 6	21,512 11 3	..	

Madras,
The 11th June 1889.

C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Southern Circle.

Revenue received and outstandings on account of Revenue during 1888-89.

District.	Particulars.	Outstandings at commencement of year.			Value of sales and other revenue during year.			Total.			Amount realized during year.			Balance due to the department at end of year.		
		RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
Direction	Timber and other produce.	..			875	8	0	875	8	0	875	8	0	..		
Chingleput ..		..			28,890	8	2	28,890	8	2	28,890	8	2	..		
North Arcot ..		583	14	8	1,24,109	9	11	1,24,693	8	7	1,22,172	7	9	2,521	0	10
South do. ..		1,129	5	5	64,569	4	0	65,698	9	5	65,573	9	5	125	0	0
Salem		..			1,49,353	9	4	1,49,353	9	4	1,48,394	4	4	959	5	0
Trichinopoly ..		706	11	0	52,051	1	1	52,757	12	1	49,742	3	11	3,015	8	2
Tanjore		8	0	0	11,846	8	11	11,854	8	11	11,854	8	11	..		
North Coimbatore.		1,066	1	5	76,582	13	5	77,648	14	10	74,898	11	5	2,750	3	6
South do.		3,011	5	1	87,094	1	8	90,105	6	9	87,330	10	8	2,774	12	5
Madura		2,573	5	3	81,344	3	7	83,917	8	10	82,378	0	11	1,539	7	11
Tinnevelly ..		440	14	8	64,671	6	11	65,112	5	7	63,372	6	1	1,739	15	1
North Malabar ..		..			31,832	0	5	31,832	0	5	30,441	0	5	1,391	0	0
South do. ..		479	0	4	53,094	2	5	53,573	2	9	53,096	10	9	476	8	0
South Canara ..		1	0	0	80,691	15	5	80,692	15	5	79,064	10	5	1,628	5	0
	Total ..	(a) 9,999	9	10	9,07,006	13	3	9,17,006	7	1	8,98,085	5	2	(b)18,921	1	11

MADRAS,
The 11th June 1889.

C. G. DOUGLAS,
Examiner of Forest Accounts.

		RS.	A.	P.	RS.	A.	P.
Under budget head I		1,917	12	5	6,482	2	8
,, ,, II		7,703	11	5	12,438	13	3
,, ,, V		378	2	0	0	2	0
Total ..	(a)	9,999	9	10	(b) 18,921	1	11

ANNUAL FORM No. 67.

Forest Department, Madras, Southern Circle.

Financial results of the year 1888-89.

District.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY.		OTHER REVENUE.		FORMATION, PROTECTION AND IMPROVEMENT OF FORESTS.	TOTAL	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction	..	..	875	..	..	875	..
Chingleput	4,848	892	24,043	4,117	13,848	28,891	18,857
North Arcot	18,646	13,296	1,03,526	15,296	48,504	1,22,172	77,096
South Arcot	7,763	9,906	57,811	12,401	27,600	65,574	49,907
Salem	1,529	3,924	1,46,865	25,504	47,078	1,48,394	76,506
Trichinopoly	15,651	16,033	34,091	5,523	16,766	49,742	38,322
Tanjore	4	..	11,850	1,246	7,110	11,854	8,356
North Coimbatore ..	..	..	74,899	23,084	17,080	74,899	40,164
South Coimbatore ..	45,480	34,682	41,851	7,459	84,705	87,331	1,26,846
Madura	11,474	12,689	70,904	9,576	60,323	82,378	82,588
Tinnevelly	8,520	11,699	54,852	9,035	43,080	63,372	63,814
North Malabar	22,755	8,985	7,687	1,720	21,425	30,442	32,130
South Malabar	44,158	24,654	8,939	600	32,076	53,097	57,330
South Canara	67,416	57,210	11,649	6,249	6,757	79,065	70,216
Total ..	2,48,244	1,93,970	6,49,842	1,21,810	4,26,352	8,98,086	7,42,132

Annual Form No. 68.

Forest Department, Madras, Southern Circle.

Trees felled by Government Agency during the year 1888-89.

(Selection Fellings).

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
Chingleput ..	....	....	*Nil.*							
North Arcot ..	Chittur range ..	Casuarina trees	..	6	6	Transferred to Form No. 69 ..	6	6	..	
	Arcot do. ..	Do. posts	..	14	14		14	14	..	
		Total of district ..	..	20	20		20	20	..	
South Arcot ..	No. I Range, Tiruvannamalai, Chengam circle forest.	Vengai	..	41	41	Converted into logs and poles 41 and transferred to Form No. 69.	41	41	..	
	Checkadi	Do.	..	264	264	Do. 264 do. ..	264	264	..	
		Acha	..	1	1	Do. 2 do. ..	1	1	..	
	Chengam and Checkadi.	Miscellaneous trees	..	771	771	Do. 794 do. ..	771	771	..	
		Total of district ..	..	1,077	1,077		1,077	1,077	..	
Salem	Hosúr range ..	Teak	..	3	3	Transferred to Form No. 69 ..	3	3	..	
		Miscellaneous trees	..	478	478		478	478	..	
		Total of district ..	..	481	481		481	481	..	
Trichinopoly ..	Kulitala range ..	Casuarina trees	..	40	40	Transferred to Form No. 69 ..	40	40	..	
		Miscellaneous trees	..	5	5		5	5	..	
		Total of district ..	..	45	45		45	45	..	
Tanjore	....	....	*Nil.*							
North Coimbatore.	....	....	*Nil.*							

Trees felled by Government Agency during the year 1888-89—*cont.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
South Coimbatore	No. I. Range	Teak	..	295	295	Converted into logs 668 and transferred to Form No. 69.	295	295	..	
		Miscellaneous trees	..	649	649	Do. into 1,167 do.	649	649	..	
	No. II. do.	Teak	..	152	152	Do. into 152 do.	152	152	..	
		Rosewood	..	49	49	Do. into 49 do.	49	49	..	
	No. VII. do.	Benteak	..	149	149	Do. into 201 do.	149	149	..	
		Rosewood	..	167	167	Do. into 250 do.	167	167	..	
		Vengai and Mal Vengai	..	84	84	Do. into 112 do.	84	84	..	
		Miscellaneous trees	..	10	10	Do. into 14 do.	10	10	..	
		Total of district	..	1,555	1,555		1,555	1,555	..	
Madura	No. I. Range	Teak	..	9	9	Transferred to Form No. 69.	9	9	..	
		Rosewood	..	40	40		40	40	..	
		Vengai	..	36	36		36	36	..	
	No. II. do.	Do.	..	79	79		79	79	..	
		Total of district	..	164	164		164	164	..	
Tinnevelly	Southern Range	Miscellaneous trees	1	131	132	Converted into 1,130 scantlings and transferred to Form No. 69.	131	131	1	
North Malabar	Begur	Benteak	..	2	2	Transferred to Form No. 69	2	2	..	
South Malabar	Nilambûr Range	Blackwood	..	116	116	Transferred to Form No. 69	116	116	..	
		Miscellaneous trees	..	226	226	Do. do.	226	226	..	
	Palghat Range	Blackwood	..	1	1	Do. do.	1	1	..	
		Vengai	..	1	1	Do. do.	1	1	..	
		Miscellaneous trees	2	140	142	Converted into 308 logs and do.	140	140	2	
		Total of district	2	484	486		484	484	2	

Trees felled by Government Agency during the year 1888-89—*cont.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
South Canara ..	Condapur range ..	Rosewood	2	..	2	Transferred to form No. 69 ..	1	2	..	
						Struck off	1			
		Miscellaneous trees	5	1	6	Transferred to form No. 69 ..	5	6	..	
						Struck off	1			
	Uppinangadi range..	Rosewood	5	14	19	Transferred to miscellaneous trees.	2	11	8	
						Transferred to form No. 69 ..	9			
		Vengai	..	1	1	Do. do.	1	1	..	
		Miscellaneous trees	73	* 463	536	Converted into 224 logs and transferred to form No. 69. ..	182	196	340	* Two added by transfer from rosewood.
						Do. 16 boats do. ..	14			
		Total of district ..	85	479	564		216	216	348	
GRAND TOTAL.										
		Teak	..	610	610	Converted into 1,035 logs and transferred to form No. 69.	610	610	..	
		Vengai	..	506	506	Do. 534 logs do. ..	506	506	..	
		Rosewood	7	387	394	Converted into 466 logs and transferred to form No. 69.	383	386	8	
						Otherwise disposed of	2			
						Struck off	1			
		Miscellaneous trees	81	2,935	3,016	Converted into 8,283 logs and 1,130 scantling.	2,658	2,673	343	
						Converted into 16 boats ..	14			
						Struck off	1			
		Total ..	88	4,438	4,526		4,175	4,175	351	

ANNUAL FORM No. 69.

Forest Department, Madras, Southern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Chingleput.	Tiruvallúr ..	Junglewood ..	..	..	..	C. ft. 6	..	C. ft. 6	Sold	..	C. ft. 6	..	..
		Fuel and firewood stumps.	Tons. lb. 18 200	..	Tons. lb. 83 1,809	..	Tons. lb. 101 2,009	..	Do.	Tons. lb. 101 2,009	..	..	..
	Chingleput ..	Casuarina, &c., firewood.	..	..	1,207 1,561	..	1,207 1,561	..	Do.	1,207 1,561	..	..	..
North Arcot.	Chandragiri ..	Redwood roots and stumps.	..	..	Tons. lb. 359 0	..	Tons. lb. 359	..	To Mamandúr and Nagapatla depôts.	Tons lb. 359 0	..	..	..
	Gudiyátam ..	Casuarina wood and branch wood.	..	..	802 1,098	..	802 1,098	..	Sold to Messrs. Morrison and Sons.	775 1,120	..	..	..
									Sold to public ..	3 1,120			
									To Jail depôt ..	23 1,098			
		Charcoal	..	..	2 0	..	2 0	..	Sold to South Indian Railway.	2 0	..	..	..
	Vellore ..	Babul wood (firewood).	..	..	78 2,175	C. ft. and 7,811	78 2,175	C. ft. and 7,811	Do. do. ..	15 0	C. ft. and 7,811	..	..
									To Jail depôt ..	63 2,175	..		
	Arcot	Casuarina branch and dead wood.	..	..	21 0	..	21 0	..	Sold to South Indian Railway.	21	..	..	..
	Chittoor ..	Casuarina posts ..	..	..	No. 14	..	No. 14	..	Do. do. ..	No. 14	..	..	..
		Do. trees ..	..	..	,, 6	..	,, 6	..	Sold to public ..	,, 6	..	..	..
	Javdi ..	Sandalwood and roots.	..	..	Tons. lb. 15 1,404	..	Tons. lb. 15 1,404	..	To Vellore depôt ..	Tons. lb. 15 1,404	..	..	..
South Arcot.	I. Tiruvannámalai Range.	Vengai logs and poles	..	..	No. 459	C. ft. pts. 378 6	No. 459	C. ft. pts. 378 6	To Tiruvannámalai depôt.	No. 422	C. ft. pts. 275 6	..	..
									Sold	37	103 0		..
		Miscellaneous timber	..	..	796	1,599 4	796	1,599 4	To Tiruvannámalai depôt.	317	523 3	No. 64	C. ft. pts. 147 11
									Sold	415	..		
		Honey	..	..	Tons. lb. 0 336	..	Tons. lb. 0 336	..	To Tiruvannámalai depôt.	Tons. lb. 0 336	928 2	..	..
		Wax	..	..	0 35	..	0 35	..	Do.	0 35	..	..	..
		Other minor produce.	..	..	0 640	..	0 640	..	Sold	0 640	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
South Arcot—*cont.*	II. Tindivanam Range.	Firewood	..	..	Tons. lb. 21 1,120	..	Tons. lb. 211,120	..	Sold	Tons. lb. 1 1,120	..	..	..
									To Tindivanam depôt	20 0			
		Honey	..	..	0 20	..	0 20	..	Do. ..	0 20	..	..	..
		Wax	..	..	0 17½	..	0 17½	..	Sold	0 17½	..	..	..
		Other minor produce.	..	..	No. 14,700	..	No. 14,700	..	Do.	No. 14,700	..	..	..
	III. Villupuram Range.	Babul firewood ..	Tons. lb. 1 0	..	Tons. lb. 747 1,312	..	Tons. lb. 748 1,312	..	Do.	Tons. lb. 746 1,659	..	Tons. lb. 1 1,893	..
		Bamboos	..	..	No. 2	..	No. 2	..	Do.	No. 2	..	..	..
		Honey	..	..	Tons. lb. 0 4	..	Tons. lb. 0 4	..	Do.	Tons. lb. 0 4	..	..	..
		Wax	..	..	3 polloms.	..	3 polloms.	..	Do.	3 polloms.	C. ft. pts.	No.	C. ft. pts.
		Casuarina timber poles.	No. 51	C. ft. pts. 480 7	No. 2,377	C. ft. pts. 1,354 6	No. 2,428	C. ft. pts. 1,835 1	Do.	No. 2,293	1,264 10	61	412 3
									Supplied to Jail depôt.	,, 73	156 6		
									To Chidambaram depôt.	,, 1	1 6		
		Miscellaneous poles.	..	..	..	156 0	..	156 0	Sold	..	156 0	..	..
	IV. Cuddalore Range.	Casuarina firewood..	Tons. lb. 171,895	..	Tons. lb. 369 1,213	..	Tons. lb. 387 868	..	Do.	Tons. lb. 282 1,624	..	Tons. lb	
									Used by dept. ..	14 0	..	81 1,148	..
									Supplied to Jail depôt.	6 336	..		
									To Chidambaram depôt.	3 0	..		
		Kandan, &c., firewood.	2412,038	..	8 0	..	249 2,038	..	Sold	8 0	..	*241 2,038	..
		Honey	..	..	0 12¾	..	0 12¾	..	To Cuddalore depôt ..	0 12¾	..	..	..
		Wax	0 1/16	..	0 1/16	..	0 1/16	..	Do. ..	0 1/16	..	..	..
		Other minor produce.	..	..	No. 14,625	..	No. 14,625	..	To Chidambaram depôt.	No. 14,625	..	..	..
	V. Tirukoilúr Range.	Honey	..	..	Tons. lb. 0 16	..	Tons. lb. 0 16	..	Sold	Tons. lb. 0 16	..	..	..
	VI. Kallakurchi Range.	Do. ..	..	..	0 23	..	0 23	..	Do.	0 23	..	..	..
Salem.	Salem ..	Engine fuel ..	..	..	No. 11,560	..	No. 11,560	..	To sale depôt	No. 11,560	..	..	..
		Sandalwood ..	..	..	Tons. lb. 0 27	..	Tons. lb. 0 27	..	Sold	Tons. lb. 0 27	..	..	..
	Námakal ..	Do. pieces ..	..	..	No. 6	..	No. 6	..	Do.	No. 6	..	..	..

* Not in stock.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Salem—*cont.*	Hosúr Range.	Teak	..	..	No. 3	C. ft. 9 0	No. 3	C. ft. 9 0	To sale depôt	No. 3	C. ft. 9 0	..	..
		Brushwood	..	..	..	8,217 0	..	8,217 0	To Hosúr depôt ..	..	1,898 0	..	..
									Sold	..	6,319 0		
		Miscellaneous timber.	..	..	478	1,011 0	478	1,011 0	To sale depôt	478	1,011 0	..	..
		Bamboos	..	..	1,424	..	1,424	..	Do.	1,424	..	..	..
		Sandalwood billets, roots, chips and dust.	..	..	Tons. lb. 12 1,333	..	Tons. lb. 12 1,333	..	Do.	Tons. lb. 12 1,333	..	..	..
	Tirupatúr ..	Sandalwood pieces ..	..	..	No. 4	..	No. 4	..	Sold	No. 4	..	..	..
Trichinopoly.	Trichinopoly ..	Firewood	Tons. lb. 12 224	..	Tons. lb. 120 0	..	Tons. lb. 132 224	..	Sold	Tons. lb. 12 224	..	Tons. lb. 40 0	..
									To Central Jail ..	80 0	..		
	Kulitalai	Miscellaneous timber.	..	..	No. 45	..	No. 45	..	Sold	No. 45	..	..	..
					Tons. lb.		Tons. lb.			Tons. lb.		Tons. lb.	
		Firewood	..	..	3,655 1,118	..	3,655 1,118	..	Do.	1,520 1,501	..	308 991	..
					No. Bdls.		No. Bdls.		Do. to South Indian Railway.	1,826 866	..		
		Bamboos	..	..	222 and 21	..	222 and 21	..	Sold	No. Bdls. 222 and 21	..	..	..
					Tons. lb.		Tons. lb.			Tons. lb.		Tons. lb.	
		Minor produce ..	..	..	12 150	..	12 150	..	Do.	12 0	..	0 150	..
					Mds.		Mds.			Mds.			
		Vembadam bark ..	Meas. $1,269\frac{1}{2}$ = Mds. $1,269\frac{1}{2}$	..	9	..	$1,278\frac{1}{2}$	..	Do.	$59\frac{1}{4}$	..	..	..
									Otherwise disposed of.	$1,219\frac{1}{4}$	..		
		Gall nuts	Meas. 800	..	Meas. 320	..	Meas. 1,120	..	Sold	Meas. 800	..	Meas. 320	..
	Perambalúr ..	Do.	Meas. 752	..	Meas. 784	..	Meas. 1,536	..	Do.	Meas. 800	..	Meas. 736	..
					Tons. lb.		Tons. lb.			Tons. lb.			
	Udayárpálaiyam.	Firewood	..	..	1,244 1,792	..	1,244 1,792	..	To Tiruvádi depôt ..	431 1,792	..	..	..
									To Kumbakónam ..	795 0	..		
									Sold to Tanjore Jail ..	18 0	..		
Tanjore.	Northern Range.	Firewood	Tons. 4	..	..	..	Tons. 4	..	Sold	Tons. 4	..	..	..
North Coimbatore.	Satyamangalam.	Sandalwood ..	..	..	Mds. lb. 5 17	..	Mds. lb. 5 17	..	To sale depôt	Mds. lb. 5 17	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
South Coimbatore.	I. Tunacadavu Range.	Teak	No. 261	C. ft. 13,631	No. 668	C. ft. 30,194	No.	C. ft.		No.	C. ft.	No.	C. ft.
					— 12*	..							
		Old logs found in the forest.	..	..	16	812	947	45,363	To Vellarugu adivaram.	133	5,923	805	38,860
									Used for bridge ..	9	560		
		Transferred from Form 7.	..	..	14	726							
		Do. rafters ..	..	..	18	217	18	217	To Vellarugu	18	217	..	..
		Miscellaneous timber.	..	..	1,170	35,391	1,170	35,391	To Adivaram	32	853	1,138	34,538
			Mds. Vis.		Mds. Vis.		Mds. Vis.			Mds. Vis.		Mds. Vis.	
		Dammer, 1st and 2nd sort.	7 2	..	146 6	..	153 8	..	To Anaimalai depôt ..	116 3	..	37 5	..
		Wax	..	..	76 ¼	..	76 ¼	..	Do. ..	62 2½	..	13 4	..
									Wastage	0 1¾	..		
		Mattipal	..	..	0 3¾	..	0 3¾	..	To Anaimalai depôt ..	0 3¾	..	..	..
			Meas.		Meas.		Meas.			Meas.		Meas.	
		Cardamoms	⅜	..	1,301⅜	..	1,302⅛	..	Do. ..	1,288⅜	..	13¾	..
		Honey	..	..	67½	..	67½	..	Do. ..	67½	..	..	..
			No.		No.		No.			No.			
		Canes, 1st to 4th sort.	175	..	35,735	..	35,910	..	Do. ..	35,910	..	..	..
			Mds. Vis.		Mds. Vis.		Mds. Vis.			Mds. Vis.		Mds. Vis.	
		Other minor produce.	210 ½	..	104 3¼	..	314 3¾	..	Do. ..	313 7¼	..	0 4½	..
					No.		No.			No.			
	II. Pollâchi Range.	Teak	..	..	152	2,597	152	2,597	Do. ..	152	2,597	..	..
		Rosewood	..	..	49	743	49	743	Do. Angalakurichi ..	40	640	..	..
									To Anaimalai ..	9	103		
					Mds. Vis.		Mds. Vis.			Mds. Vis.			
		Dammer, 1st, 2nd and 3rd sort.	..	..	186 4½	..	186 4½	..	Do. ..	185 7½	..	..	..
									Wastage	0 5	..		
		Wax	..	..	141 0	..	141 0	..	Do.	1 4	..	..	..
									To Anaimalai ..	139 4	..		
					Meas.		Meas.			Meas.			
		Cardamom	..	..	1,672⅝	..	1,672⅝	..	Do.	1,672⅝	..	..	..
	IV. Punachi Range.	Honey	..	..	1,143¾	..	1,143¾	..	Do.	1,124¾	..	..	..
									Wastage	19	..		
					No.		No.			No.			
		Canes, 2nd, 3rd and 4th sort.	..	..	4,525	..	4,525	..	To Anaimalai ..	4,525	..	..	..
			Mds.		Mds. Vis.		Mds. Vis.			Mds. Vis.			
		Gallnuts	120	..	504 6	..	624 6	..	Do.	504 6	..	..	..
									Wastage	120 0	..		
		Miscellaneous minor produce.	..	..	60 0	..	60 0	..	Do. ..	0 2	..	..	..
									To Anaimalai ..	59 6	..		
					No.		No.			No.		No.	
	VII. Bolampatti Range.	Benteak	..	..	201	6,520	201	6,520	To Coimbatore ..	168	5,139	33	1,381

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
South Coimbatore—*cont.*	VII. Bolampatti Range—*cont.*	Vengai	..	..	No. 112	C. ft. 3,324	No. 112	C. ft. 3,324	To Coimbatore ..	No. 93	C. ft. 2,568	No. 19	C. ft. 756
		Rosewood	..	..	250	7,978	250	7,978	Do.	176	5,037	74	2,941
		Miscellaneous timber.	..	..	14	753	14	753	Do.	11	464	3	289
		Firewood	..	..	Tons. lb. 8 1,759	..	Tons. lb 8 1,759	..	Sold	Tons. lb. 8 213	..	..	..
									Dryage	0 1,546	..		
Madura.	I. Range ..	Teak	Lgs. Scts. 0 19	C. ft. pts. 18 90	Lgs. Scts. 18 500	C. ft. pts. 575 39	Lgs. Scts. 18 519	C. ft. pts. 594 29	Sold	Lgs. Scts. pts. 0—500	C. ft. pts. 500 0	Lgs. Scts. 18 19	C. ft. pts. 94 29
		Vengai	0 42	46 39	71 0	559 31	71 42	605 70	Do.	..	30 0	71 42	575 70
		Blackwood	0 17	16 30	130 0	555 36	130 17	571 66	Do.	..	..	130 17	571 66
	II. Range ..	Teak	..	..	4 0	16 0	4 0	16 0	Do.	4 0	16 0	..	..
		Vengai	23 0	264 73	797 1,000	2,232 79	820 1,000	2,496 152	Do.	811 1,000	2,476 94	9 0	20 58
			876 Sq. ft.=72		..	..	876 Sq. ft.=72.		Do.	876 Sq. ft.=72.		..	..
		Miscellaneous timber.	15½	9 77	190 0 —14½ *	186 50	191 10	195 127	Do.	191 0	186 50	0 10	9 77
		Firewood	..	..	Ts. lb. 137 851 and No. 698	..	Ts. lb. 137 851 and No. 698	..	To depôt	Ts. lb. 137 851 & No. 698	..	..	..
	V. Range ..	Firewood	Ts. lb. 161 1,848	..	1,754 2,202	..	1,916 1,812	..	Sold	1,849 692	..	Ts. lb. 67 1,120	..
			..	..	2 found in excess of old stock.								
		Miscellaneous minor produce.	..	..	6 784	..	6 784	..	Do.	6—784	..	..	..
Tinnevelly.	Southern Range.	Teak	No. ..	C. ft. ..	No. ..	C. ft. 2	No. ..	C. ft. 2	Sold	No. ..	C. ft. 2	No. ..	C. ft. ..
		Miscellaneous timber.	1,130	1,076	2,086 — 157	6,227 + 157†	3,059	7,460	Do.	970	3,929	1,613	2,863
									To Ambásamudram depôt.	357	514		
									Used by department ..	119	154		
		Firewood	..	..	Ts. lb. 581 2,100	..	Ts. lb. 581 2,100	..	Sold	Ts. lb. 581 2,100	..	..	..
		Charcoal	..	..	185 1,896	..	185 1,896	..	Do.	185 1,896	..	..	..
		Bamboos ..	Ts. lb. 2 490 =No. 817 lb. 1,807 ‡	..	No. 461	..	No. 1,684	..	Used by department ..	No. 100	..	No. 667	..
									Sold	„ 917	..		
			No. =406	..	Tons. lb. 12 291	..	Tons. lb. 12 291	..	Do.	Tons. lb. 12 291	..		

* Converted into firewood. † Correction in the opening balances made by the District Forest officer. ‡ Erroneously classed under minor produce in previous year.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Tinnevelly—*cont.*	Southern Range—*cont.*	Honey	..	..	Meas. 997¾	C. ft. ..	Meas. 997¾	C. ft. ..	Sold	Meas. 87½	C. ft. ..	Meas. 185½	..
									To Ambásamudram depôt.	725	..		
		Wax	..	..	Mds. Vis. 7 1½	..	Mds. Vis. 7 1½	..	Sold	Mds. Vis. 1 4	..	Mds. Vis. 1 1	..
			..	..	..	..	..	..	To Ambásamudram depôt.	4 4½	..		
		Cardamoms	..	..	0 ⅓	..	0 ⅓	..	Do. ..	0 ⅓	..	..	..
		Dammer	..	..	3 2½	..	3 2½	..	Sold	0 5	..	..	..
			..	..	..	..	..	..	To Ambásamudram ..	2 5½	..		
		Other minor produce.	..	..	Tons. lb. 0 168	..	Tons. lb. 0 168	..	Sold	Tons lb. 0 168	..	..	..
		Do.	..	..	Meas. 3,061½	..	Meas. 3,061½	..	Do. ..	Meas. 538	..	Meas. 225½	..
									To Ambásamudram ..	2,298	..		
	Northern Range.	Teak	..	..	2½ cotahs. ..	.. 100	2½ cotahs. ..	.. 100	Sold	2½ cotahs. ..	.. 100	.. ..	.. ..
		Miscellaneous timber.	..	..	..	1,960	..	1,960	Do.	..	1,960	..	..
		Firewood	..	..	Tons. lb. 380 0	..	Tons. lb. 380 0	..	Do.	Tons. lb. 380 0	..	..	..
		Charcoal	..	..	51 952	..	51 952	..	Do.	51 952	..	..	..
		Honey	..	..	Meas. 35	..	Meas. 35	..	To Vasudevanallur depôt.	Meas. 35	..	..	..
		Wax	..	..	Mds. Vis. 0 3¼	..	Mds. Vis. 0 3¼	..	Do. ..	Mds. Vis. 0 3¼	..	..	..
	Central Range.	Honey	..	..	Meas. 10 5/16	..	Meas. 10 5/16	..	Sold	Meas. 10 5/16	..	..	..
		Wax	..	..	Mds. Vis. 0 ¾	..	Mds. Vis. 0 ¾	..	Do.	Mds. Vis. 0 ¾	..	..	..
North Malabar.	Chedlet Kudrakote and Padri Range.	Teak	..	C. ft. 67,689	..	C. ft. ..	..	C. ft. 67,689	Sold	..	C. ft. 60,853	..	C. ft. 6,702
									Used by department ..	..	134		
		Vengai	..	52	..	..	..	52	Do. ..	..	52	..	..
		Blackwood	..	3,954	..	..	..	3,954	..	..	..	..	3,954
		Miscellaneous timber.	..	..	..	75	..	75	Sold	..	75	..	..
		Honey	..	..	Tons. lb. 0 235	..	Tons. lb. 0 235	..	Do.	Tons. lb. 0 235	..	Tons. lb. ..	..
		Wax	20 lb.	..	0 26	..	0 46	..	Used by department ..	0 6	..	0 40	..
		Cardamoms	..	..	0 368	..	0 368	..	Sold	0 368	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
South Malabar.	Nilambúr range.	Teak	No. 5	C. ft. ..	No. 3	C. ft. ..	No. 8	C. ft. 65	Sold	No. 5	C. ft. 65	No. 3	C. ft. ..
			The equivalent of 5 logs of opening balance.			65							
		Teak saplings ..	19,730	23,675	5,977	3,110	25,707	26,785	To Kallai depôt ..	25,613	26,785	94	..
		Blackwood	157	2,355	172	..	329	3,543	Sold	157	3,543	172	..
			Difference in the estimate of 157 logs of the opening balance.			1,188							
		Miscellaneous timber.	1,884	18,840	930	10,855	2,814	29,695	Do.	1,874	29,284	930	..
									To Kallai depôt ..	10	411		
		Bamboos	191	..	10,839	..	11,030	..	Do.	10,549	..	..	..
									Sold	62			
									Used by department ..	375			
									Lost in transit ..	44			
	New Amarapalem range.	Wax	..	..	Mds. 17	..	Mds. 17	..	Sold	Mds. 14	..	..	..
									To Nilambúr	3	..		
		Cardamom	..	..	5½	..	5½	..	Do. ..	5½	..	..	..
		Other minor produce.	..	..	52½	..	52½	..	Do. ..	52½	..	..	..
	Pálghat ..	Vengai	..	..	No. 1	32 90	No. 1	32 90	Sold	No. 1	32 90	..	..
		Blackwood	..	..	1	18 48	1	18 48	Do.	1	18 48	..	..
		Miscellaneous timber.	8	508	322	11,199 62	330	11,707 62	Do.	308	11,199 62	8	508
									Used by departmont ..	14			
		Kariyas, &c. ..	..	..	1,995	..	1,995	..	To kallai depôt ..	1,995	..	..	..
		Bamboos	..	..	100	..	100	..	Used by department ..	100	..	..	..
		Do. Kayikols ..	..	..	66	..	66	..	Transferred to depôt..	66	..	..	..
		Honey	..	..	Mds. Vis. 0 2½	..	Mds. Vis. 0 2½	..	Sold	Mds. Vis. 0 2½	..	..	..
		Wax	..	..	0 5	..	0 5	..	Do.	0 5	..	..	..
South Canara.	Condapoor range.	Vengai	No. 1	C. ft. pts. 36 0	No. ..	C. ft. pts. ..	No. 1	C. ft. pts. 36 0	....	No. ..	C. ft. pts. ..	No. 1	C. ft. pts. 36 0
		Rosewood	33	888 4	..	3 6	33	892 0	Sold	1	21 0	22	498 6
									Written off account ..	10	372 4		
		Miscellaneous timber.	118	2,652 0	26	233 3	143	2,843 3	Sold	74	1,348 0	69	1,477 6
			Error in closing balance of previous year.		— 1	— 42 0			Otherwise disposed of.	..	17 7		
		Firewood	Tons. lb. ..	..	Tons. lb. 121 1,235½	..	Tons. lb. 121 1,235½	..	Sold	Tons. lb. 51 1,233½	..	Tons. lb. 70 0	..
									Otherwise disposed of.	0 2	..		
		Charcoal	0 112	..	..	..	0 112	..	Sold	0 112	..	..	..
		Honey	..	..	0 402	..	0 402	..	Do.	0 402	..	..	..
		Wax	0 16	..	0 570	..	0 586	..	Do.	0 525	..	0 61	..
		Other minor produce	18 1,429	..	49 754	..	67 2,183	..	Do.	53 1,813	..	14 370	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
South Canara—*cont.*	Udipi ..	Teak poles ..	No. ..	C. ft. pts. ..	No. 26	C. ft. pts. ..	No. 26	C. ft. pts. ..	Sold	No. 26	C. ft. pts. ..	No. ..	C. ft. pts. ..
		Miscellaneous timber.	49	1,483 0	1	19 0	50	1,502 0	....	..	..	50	1,502 0
					12		12		Sold	No. 12	..	..	..
			Tons lb.		Tons. lb.		Tons. lb.			Tons. lb.		Tons. lb.	
		Minor produce ..	10 1,482	..	21 270	..	31 1,752	..	Do.	28 2,096	..	2 1,211	..
									Otherwise disposed of.	685	..		
		Vengai	No. 1	55 8	No. 2	12 0	No. 3	67 8	To depôt	No. 3	67 8	..	..
		Rosewood	2	82 4	..	..	2	82 4	Do.	2	72 9	..	9 5
		Miscellaneous timber.	187	5,060 4	314	8,615 1			Sold	92	1,418 7		
			Correction of previous year's closing balance.		+ 45	1,273 9	546	14,949 4	To depôt, Mangalore..	260	6,796 9	180	6,733 8
									Otherwise	14	..		
	Uppinangadi.	Bamboos	..	..	300	..	300		....	..	..	No. 300	
			Tons lb.		Tons. lb.		Tons. lb.			Tons. lb.		Tons. lb.	
		Minor produce ..	1 462	..	178 17	..	179 479	..	Sold	174 118	..	5 326	..
									Otherwise	35	..		
		Do. ..	..	..	No. 1,739	..	No. 1,739		Sold	No. 825		No. 914	
		Vengai	..	..	1	..	1	..	Do.	1	..	..	..
			Tons lb.		Tons. lb.		Tons. lb.			Tons. lb.		Tons. lb.	
		Firewood	..	..	253 143	..	253 143	..	Do.	242 1,135	..	10 746	..
	Mangalore ..	Charcoal	2 964	..	..	..	2 964	..	Otherwise disposed of.	502	..		
		Bamboos	No. 2,500				No. 2,500		....	..	..	2 964	..
			Tons lb.		Tons. lb.		Tons. lb		....			No. 2,500	
		Minor produce ..	4 2,196	..	19 1,452	..	24 1,408	..		Tons. lb.		Tons. lb.	
		Rosewood trees ..	..	..	No. 13	..	No. 13	..	Sold	23 1,529	..	0 2,119	..
	Kásargód Range.								Do.	No. 13		..	..
			Tons lb.		Tons. lb.		Tons. lb.			Tons. lb.		..	..
		Minor produce ..	0 454	..	24 1,770	..	24 2,224	..	Do.	24 946	..	0 1,278	..
							Grand Total.						
			Lgs. Scts.	C. ft.	Lgs. Scts.	C. ft.	Lgs. Scts.	C. ft.		Lgs. Scts.	C. ft.	Lgs. Scts.	C. ft.
		Teak	266 19	81,339	1,087 500	41,833	1,353 519	123,172	Sold	11 500	61,536	859 19	47,057
									Depôt	474 0	13,886		
									Otherwise	9 0	693		
			..	..	No. 26	..	No. 26	..	Sold	No. 26	..	..	..
		Teak saplings ..	19,730	23,675	5,977	3,110	25,707	26,785	Depôt	25,613	26,785	94 0	..
		Rosewood ..	192 17	7,295	602	10,486	794 17	17,781	Sold	169	3,582	398 17	7,974
									Depôt	227	5,853		
									Otherwise disposed of.	10	372		
		Vengai	25 42	454	1,443 1,000	6,539	1,468 1,042	6,993	Sold	850 1,000	2,694	100 42	1,388
			876 Sq. ft.	= 72	..	..	876 Sq. ft. = 72.		Depôt	518	2,911		
									Sold	876 Sq. ft. = 72.		..	..
		Miscellaneous timber.	3,442	30,110	8,577	81,029	12,019	111,139	Do.	6,217 70	51,755	4,116 10	48,481
									Depôt	1,466	10,574		
									Otherwise	220	329		
		Do.	..	..	71 =	2,990	71 =	2,990	Sold	71 =	2,990	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
						Grand Total—cont.							
		Redwood roots ..	..	..	Tons. lb. 359 ..	= 17,950	Tons. lb. 359 ..	= 17,950	Depôt	Tons. lb. 359 ..	= 17,950	..	..
		Firewood and charcoal	Tons lb. 459 561	..	11,837 1,938½	..	12,297 259½	..	Sold	9,897 977½	..	Tons lb. 823 2,180	..
									Depôt	1,474 1,436	..		
									Otherwise	101 146			
		Do. do. ..	..	..	..	16,028	..	16,028	Sold	...	14,130	..	..
									Depôt	..	1,898		
		Do. do. ..	..	..	No. 14,259	..	No. 14,259	..	Depôt	No. 14,253	..	..	..
									Sold	,, 6			
		Bamboos	2—490 =No. 817 * 1,807 lb. =No. 406 No. 2,691 =Tons 54	..	,, 13,414	..	,, 17,328	..	Sold	,, 1,203	..	No. 3,467	..
									Depôt	,, 12,039			
									Otherwise	,, 619			
		Do.	..	..	Tons. lb. 12 291 = No. 2,426 Bundles. 21	..	Tons. lb. 12 291 = No. 2,426 Bundles. 21	..	Sold	Tons. lb. 12 291 = No. 2,426	..	..	..
									Sold	21 Bundles.			
		Sandalwood ..	.. Mds. lb. *3,536 19	..	Tons. lb. 28 666= No. 10	1,417	Tons. lb. 28 666= No. 10	1,417	Depôt	Tons. lb. 28 639	= 1,414	..	..
									Sold	27 lb.	= 1		
									Sold	No. 10			
		Minor produce ..	Meas. 1,269½ = 1,269½ ms.	..	Mds. lb. 29,323 3	..	Mds. lb. 34,129 9	..	To depôt	Mds. lb. 1,467 21½		Mds. lb. 2,156 15	..
									Sold	29,134 ½			
									Otherwise disposed of.	1,370 22			
		Do. ..	Meas. 1,552¾ Mds. = 1,552	..	Meas. 9,394¼ = 873 mds.	..	Meas. 10,947 =2,425 mds.	..	Depôt	Meas. Mds. 7,211½ = 603		Meas. 1,481 =185 mds.	..
									Sold	2,235½ = 255	..		
									Otherwise	19 = 2 and 1,380			
		Do. ..	..	..	2½ cotahs = 5 mds.		2½ cotahs. = 5 mds.		Sold	2½ cotahs. = 5	..	..	..
		Do. ..	No. 175 = 22 mds.	..	No. 71,324 = 232 mds.	..	No. 71,499 = 254 mds.	..	Depôt	No. 55,060 = 125	..	No. 914 =3 mds.	..
									Sold	15,525 = 126	..		

* 1807 lb. Erroneously classed under minor produce in previous year.

DISTRICTWAR ABSTRACT OF FORM No. 69 showing the collection of Timber, &c., in the Southern Circle during the year 1888-89.

	Timbers.						Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Remarks.
	Teak.	Black or rose-wood.	Vengai.	Other timbers.	Redwood roots.	Total timber.					
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	No.	C. ft.	MDS.	
Stock of the Circle at beginning of the year.	105,014	7,296	527	30,110	..	142,947	Tons 459 = 18,360	Tons 56 = No. 3,508 + 1,807 lb. = No. 406.	..	Tons 72= 6,451 mds. —(a) 1,807lb. = 72 mds.	(a) Bamboos erroneously classed under minor produce in previous year.
Chingleput	..	..	..	6	..	6	(f) 51,660	..	..	..	(b) Estimate of 14 casuarina trees.
North Arcot	..	..	..	(b) 140	Tons 359 = 17,950 C. ft.	18,090	(g) 44,051	..	(e) 782	..	(c) Estimate of 45 casuarina trees.
South Arcot	..	..	378	3,110	..	3,488	(f) 45,865	2	..	(k) 150	(d) Includes 2,400 cubic feet, estimate of 12 boats.
Salem	9	..	..	1,011	..	1,020	(h) 10,529	1,424	(e) 632	..	(e) Estimates at 50 cubic feet per ton.
Trichinopoly	..	..	..	(c) 450	..	450	(f) 200,811	243	..	(l) 1,226	(f) Estimates at 40 cubi feet per ton.
Tanjore	..	..	..	..	..	..	..	..	..	..	(g) Includes 60 cubic feet, the estimate of 6 trees and 36,180, the equivalent of Tons 604—1,033.
North Coimbatore	..	..	..	..	..	..	..	..	(e) 3	..	(h) Includes 2,312, estimate of 11,560 engine fuel.
South ,, ...	41,066	8,721	3,334	36,144	..	89,255	(f) 351	..	..	(m) 1,563	(i) Includes 70 cubic feet, estimate of 698 cross bars.
Madura	591	555	2,792	185	..	4,123	(i) 75,765	..	..	569	(j) Estimate of 1,995 Kariya poles.
Tinnevelly	102	..	..	8,344	..	8,446	(f) 47,968	2,387	..	(n) 535	(k) Includes 106 mds., estimate of No. 29,325, cotton pods, &c
North Malabar	..	..	..	75	..	75	..	..	..	25	(l) Includes 138 mds., estimate of 1,104 measures of galinuts.
South ,, ...	3,175	1,206	33	22,055	..	26,469	(i) 19,950	11,005	..	76	(m) Includes 343 mds., estimate of 4,186 measures and No. 40,260.
South Canara	..	4	12	(d) 12,499	..	12,515	14,985	300	..	(o) 26,289	(n) Includes 517 mds., estimate of 4,104 measures and 2½ cotahs.
Collection during the year for the Circle.	44,943	10,486	6,539	84,019	17,950	163,937	511,935	15,861	1,417	30,433	(o) Includes 6 mds., estimate of 1,739 canes.
Total ..	149,957	17,782	7,066	114,129	17,950	306,884	530,295	19,775	1,417	36,812	(p) Includes 386 mds., estimate of 2,236 measures, 2½ cotahs and No. 15,525.
Sold in the Forests	61,536	3,582	2,767	54,745	..	122,630	410,087	3,650	3	(p) 29,520	(q) Includes 188 mds., estimate of No. 914 canes and 1,481 measures.
Otherwise disposed of	693	372	..	329	..	1,394	4,043	619	..	2,752	
Removed to sale depôts	40,671	5,853	2,911	10,575	17,950	77,960	83,216	12,039	1,414	2,197	
Total disposals ..	102,900	9,807	5,678	65,649	17,950	201,984	497,346	16,308	1,417	34,469	
Stock in the forest on 31st March 1889.	47,057	7,975	1,388	48,480	..	104,900	32,949	3,467	..	(q) 2,343	

ANNUAL FORM

Forest Department,

RECEIPTS and Issues of Timber and other

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	ON HAND, 1st APRIL 1888.		RECEIVED DURING THE YEAR.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Chingleput.	..	..	..					
				Tons. lb.			Tons. lb.	
North Arcot.	..	Mámandúr.	Redwood roots and stumps.	126 0	..	Mámandúr forest.	97 0	..
	..	Nagapatla.	Do. ..	200 0	..	Chamala.	262 0	..
	..	Vellore Jail depôt.	Babul, &c., firewood.	166 319¼	..	Buthur tank bed, &c.	87 1,033	..
	..	Sandalwood depôt.	Sandalwood roots.	32 506	..	Javadi hills.	15 1,404	..
					C. ft.		No.	C. ft.
			Vengai	..	..	Chengam and Chekadi forests.	422	275 6
				No.				
			Miscellaneous timber.	6	24 11	Do. ..	317	523 3
				Tons. lb.			Tons. lb.	
	I. Range.	Tiruvannámalai depôt.	Sandalwood billets.	0 1,949	...	..	..	..
			Honey	..	..	Tiruvannámalai forest.	0 336	..
			Wax	..	..	Do. ..	0 35	..
South Arcot.			Firewood ..	..	..	Tindivanam taluk forest.	20 0	..
			Sandalwood roots.	1 222	..	..	..	..
	II. Range.	Tindivanam depôt.	Honey	..	..	Tindivanam taluk forest.	0 20	..
			Wax	0 4	..	..	..	..
							No.	
			Miscellaneous timber.	..	..	Plantation.	1	1 6
		Chidambaram depôt.	Kandan, &c., firewood.	5 1,022	..	Chidambaram, &c., forests.	Tons. lb. 3 0	..
		Cuddalore depôt.	Sandalwood billets.	..	..	..	0 1,652	..
	IV. Range	Headquarter office.	Sandalwood billets.	0 44	..	..	..	..
		Cuddalore depôt.	Honey	..	..	Cuddalore taluk forests.	0 12¾	..
		..	Wax	..	..	Do. ..	0 ¾	..
		Chidambaram depôt.	Silk cotton pods ..	..	..	Chidambaram taluk forests.	No. 14,625	..
				No.	C. ft.		No.	C. ft.
Salem.	..	Dharmapuri and Hosúr Range.	Teak	2	4 4	Melagiri, &c.	3	0 9
			Vengai	2	3 11	..	..	..

No. 70.

Madras, Southern Circle.

Produce in Sale Depôts during the year 1888-89.

Total.		Disposed of during the year.			Balance on 31st March 1889.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Nil.							
Tons. lb.			Tons. lb.		Tons. lb.		
223 0	..	Sold	175 0	..	48 0	..	
462 0	..	Do.	125 0	..	337 0	..	
		Sold and supplied to Vellore Central Jail.	119 1,896	..			
253 1,352¼	..	Sold and supplied to Vellore manufactory.	44 1,596	..	11 100¼	..	
		Written off ..	78 0	..			
47 1,910	..	Sold	31 1,131	..	16 779	..	
No.	C. ft.		No.	C. ft.	No.	C. ft.	
422	275 6	Sold	418	260 6	4	15 0	
323	548 2	Do.	225	480 10	98	67 1	
		Decrease in measurement.	..	0 3			
Tons. lb.			Tons. lb.		Tons. lb.		
		Sold	0 98	..			
0 1,949	..	To Cuddalore depôt.	0 1,652	..	..	..	
		Dryage	0 199	..			
0 336	..	Sold	0 336	..	..	..	
0 35	..	Do.	0 35	..	..	..	
20 0	..	Do.	20 0	..	..	..	
1 222	..	..	..	..	* 1 222	..	* Not in stock.
0 20	..	Sold	0 17½	..	..	..	
		Kept as specimen in No. II Range office.	0 2½	..			
0 4	..	Sold	0 4	..	..	..	
No. 1	1 6	Do.	No. 1	1 6	..	..	
Tons. lb.			Tons. lb.				
8 1,022	..	Do.	6 1,014	..	2 8	..	
0 1,652	..	Do.	0 336	..	0 1,316	..	
0 44	..	Do.	..	..	0 44	..	
0 12¾	..	Do.	0 12¾	..	..	..	
0 ¾	..	Do.	0 ¾	..	..	..	
No. 14,625	..	Do.	No. 14,625	..	..	..	
No.	C. ft.		No.	C. ft.			
5	13 4	Sold and supplied to Remount depôt.	5	13 4	..	..	
2	3 11	Sold	2	3 11	..	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Salem—*cont.*	..	Dharmapuri and Hosúr Range—*cont.*	Miscellaneous timber.	No. 2	C. ft. 3 1	..	No. 478	C. ft. 1,011 0
			Firewood ..	..	..	..	..	1,898 0
			Engine fuel ..	..	..	Morur block	11,560	..
			Bamboos	..	..	..	1,424	..
			Sandalwood billets, roots.	Tons. lb. 1 672	..	..	Tons. lb. 12 1,333	..
Trichinopoly.	..	Tiruvádi ..	Firewood	Tons. lb. 70 1,792	..	Kolamanikam, Karaipakam, Aramanaikurchi and Tiruvengam.	Tons. lb. 380 448	..
	..	Kumbakónam.	Do.	9 448	..	Sattampadi, Valakurchi.	846 1,344	..
Tanjore.	..	..	..					
North Coimbatore.	..	Satyamangalam.	Sandalwood ..	Tons. lb. 0 1,681¼	..	Talavadi forest.	Tons. lb. 0 142	..
South Coimbatore.	..	Coimbatore	Teak logs and rafters.	No. 336	C. ft. 11,841	Vellarugu	No. 563	C. ft. 21,622
						Excess by re-measurement.		1
			Benteak	..	..	Bolampatti.	168	5,139
			Vengai and Mal Vengai.	..	..	Do. ..	93	2,568
			Rosewood ..	..	..	Do. ..	176	5,037
			Miscellaneous timber.	..	..	Do. ..	11	464
	..	Vellarugu-adivaram.	Teak logs and rafters.	433	15,818	I. Range..	151	6,140
			Miscellaneous timber.	1	17	Do. ..	32	853
	..	Venthamudi.	Teak logs ..	14	726	..	..	..
	..	Polláchi ..	Teak logs and rafters.	276	3,673	Vellarugu.	18	217
	..	Angalakurchi depôt.	Rosewood	..	..	II Range ..	40	640
			Teak logs ..	..	..	Do. ..	152	2,597
			Rosewood	..	..	Do. ..	9	103
			Dammer (1st, 2nd and 3rd sort).	..	..	..	Mds. Vis. 302 2½	..
	..	Anaimalai	Honey	..	..	..	Meas. 1,192¼ 0	..
			Wax	..	..	..	Mds. Vis. 201 6½	..
			Cardamom ..	..	..	..	† 72 1	..
			Canes (1st, 2nd 3rd and 4th sort).	..	..	..	No. 40,435	..

in Sale Depôts during the year 1888-89—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1889.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
No. 480	C. ft. 1,014 1	Sold	No. 471	C. ft. 929 1	No. 9	C. ft. 85 0	
..	1,898 0	Do.	..	1,898 0	..	..	
11,560	..	Do.	11,560	..	..	..	
1,424	..	Do.	424	..	1,000	..	
Tons. lb. 13 2,005	..	Do.	Ton. lb. 1 703	..	Tons. lb. 12 1,302	..	
Tons. lb. 451 0	..	Sold	Tons. lb. 427 896	..	Tons. lb. 23 1,344	..	
855 1,792	..	Do.	839 896	..	16 896	..	

Nil.

Tons. lb. 0 1,823¼	..	..	..	..	Tons. lb. 0 1,823¼	..	
No. 899	C. ft. 33,464 0	Sold	No. 434	C. ft. 16,618 0	No. 465	C. ft. 16,846 0	
168	5,139 0	Do.	168	5,139 0	..	..	
93	2,568 0	Do.	93	2,568 0	..	..	
176	5,037 0	Do.	176	5,037 0	..	..	
11	464 0	Do.	11	464 0	..	..	
584	21,958 0	To Coimbatore depôt.	563	21,622 0	..	..	
		To Polláchi ..	18	217 0			
		Sold ..	3	109 0			
		Deficit found on re-measurement.	..	10 0			
33	870 0	Sold	29	757 0	4	113 0	* Treated as teak in previous year.
14	726 0	Transferred to F. No. 6.	14	726 0	..	..	Because Venthamudi is not a sale depôt.
294	3,890 0	Sold	219	2,144 0	75	1,746 0	
40	640 0	Sold	40	611 0	..	..	
		Discount ..	..	29 0			
152	2,597 0	Sold	151	2,448 0	..	..	
		Discount allowed.	..	127 0			
		Used by dept.	1	22 0			
9	103 0	Sold	9	98 0	..	..	
		Discount allowed.	..	5 0			
Mds. Vis. 302 2½	..	Sold	Mds. Vis. 301 1½	..	..	..	
		Wastage ..	1 1¼	..			
Meas. 1,192¼	..	Sold	Meas. 1,192	..	..	..	
		Wastage ..	¼	..			
Mds. Vis. 201 6½	..	Sold	Mds. Vis. 200 6½	..	..	..	
		Wastage ..	1 ¼	..			
72 1	..	Sold	72 1	..	..	..	† Equivalent of 2,961 measures of cardamoms.
No. 40,435	..	Do.	No. 40,435	..	..	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
South Coimbatore—*cont.*	..	Anaimalai—*cont.*	Other minor produce.	..	..	..	Mds. Vis. 878 7	..
Madura.	..	Kodaikánal firewood depôt.	Firewood ..	Tons. lb. 176 610	..	Gundan shola and other plantations.	Tons. lb. 137 851 and 698 cross bars.	..
Tinnevelly.	Southern Range.	Ambásamudram depôt.	Kongu logs ..	No. 14	C. ft. 18	Pambanár Kariar, &c.	No. 357	C. ft. 514
			Bamboo pattais ..	lb. 1,549= No. 830	..	..	..	..
			Honey	..	..	Mandantorai, &c., forests.	Meas. 725	..
			Wax	..	..	Do. ..	Mds. Vis. 4 4½	..
			Other minor produce.	..	..	..	2 5¾ Meas. 2,298	..
		Tinnevelly Cusba depôt.	Bamboo pattais ..	Tons. lb. 4 476= No. 5,055	..	..	..	..
	Northern Range.	Vasudeva Nallur depôt.	Honey	..	..	..	35	..
	..	..	Wax	..	..	..	Mds. Vis. 0 3¼	..
North Malabar.	..	..	..					*Nil*
South Malabar.	..	Nilambúr.	Wax	..	..	Amaram palam forest.	Mds. 3	..
			Cardamom ..	..	..	..	5½	..
			Other minor produce.	..	..	..	52½	..
			Teak saplings, superior, small and classified.	No. 16,659	C. ft. 15,703	Nilambúr plantations.	No. 25,613	C. ft. 26,785
			Miscellaneous timber.	20	200	Old stock left out. The excess equivalent of the opening balance 20.	10	411 623
	..	Kallai depôt.	Bamboos	..	..	Nilambúr. Purchased for rafting purposes.	10,549 3,660	..
			Do. Kayokols, Kariyas, &c.	.. 36	.. ..	.. ..	66 1,995	.. ..
South Canara.	..	Mangalore depôt.	Vengai	..	..	Uppinangadi.	No. 3	C.ft. 67 8
			Rosewood ..	..	..	Do. ..	2	72 9
			Miscellaneous timber.	..	..	Do. .. By re-measurement.	260	6796 9 2

in Sale Depôts during the year 1888-89—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1889.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Mds. Vis. 878 7	..	Sold .. .. Wastage ..	Mds. Vis. 878 3 0 4	.. ..	..	..	
Tons. lb. 313 1,461 and No. 698	.. ..	Sold .. .. Written off .. Sold	Tons. lb. 221 1,005 31 985 No. 698	.. .. ..	Tons. lb. 60 1,711	..	
No. 371	532	Sold .. .. Used by dept.	No. 90 277	C. ft. 121 390	No. 4	C. ft. 21	
830	..	Sold .. .. Used by dept.	No. 750 80	.. ..	..	..	
Meas. 725	..	Sold	Meas. 30¾	..	Meas. 694¼	..	
Mds. Vis. 4 4½ 2 5¾	.. ..	.. .. Do.	Mds. Vis. .. 0 4½	.. ..	Mds. Vis. 4 4½ 2 1¼	.. ..	Ton lb. = 1 110
Meas. 2,298	..	Do.	Meas. 2,998	..			
No. 5,055	..	Do.	No. 5,055	..	..	..	
Meas. 35	..	Do.	Meas. 35	..	..	..	
Mds. Vis. 0 3½	..	Do.	Mds. Vis. 0 3½	..	..	..	
Mds. 3	..	..	..	..	Mds. 3	..	
5½	..	..	..	..	5½	..	
52½		Sold	Mds. 51	..	1½	..	
No. 42,272	C. ft. 42,488	Sold .. .. Rejected ..	No. 21,046 517	C. ft. 25,401 ..	No. 20,709	C. ft. 17,087	
30	1,234	..	..	..	30	1,234	
14,209	..	Sold	8,800	..	5,409	..	
66 2,031	.. ..	Sold	66 ..	.. ..	.. 2,031	.. ..	
No.	C. ft.		No.	C. ft.	No.	C. ft.	
3	67 8	Sold	3	67 8	..	..	
2	72 9	..	..	..	2	72 9	
260	6,797 1	Sold .. .. By re-measurement.	169	4,634 4 1 3	91	2,161 4	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
								GRAND
				No.	C. ft.		No.	C. ft.
			Teak	(a) 1,061	32,062	..	(b) 1,055	(b) 35,725
			Teak saplings ..	16,659	15,703	..	25,613	26,785
			Vengai	2	3 11	..	518	2,911 2
			Rosewood ..	..	..	..	227	5,852 9
			Miscellaneous timber.	43	263	..	1,466	(c) 11,197 10
			Redwood roots and stumps.	Tons. 326 = Tons. lb.	16,300 C. ft.	..	Tons. 359 = Tons. lb.	17,950 C. ft.
			Firewood	427 1,951¼	..	..	1,474 1,436	..
			Do.	..	..	..	..	1,898
			Do.	No. 36 Tons. lb.	..	..	No. 14,253	..
			Bamboos	4 2,025 = No. 5,885	..	..	(d) 15,699	..
			Sandalwood ..	Tons. lb. 36 594¼	..	..	Tons. lb. (e) 29 51	..
			Minor produce ..	Mds. lb. 0 4	..	..	Mds. lb. (f) 1,540 0	..
			Do. ..	..	..	..	No. 55,060	..
			Do. ..	..	..	..	Meas. (f) 4,250¼	..

in Sale Depôts during the year 1888-89—*cont.*

TOTAL.		DISPOSED OF DURING THE YEAR.			BALANCE ON 31ST MARCH 1889.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
TOTAL.							
No.	C. ft.		No.	C. ft.	No.	C. ft.	
2,116	67,787	Sold	980	26,471	540	18,592	(*a*) 1-17 teak classed under miscellaneous timber. (*b*) Includes 581-21,839 c. ft. received from other depôts.
		To other depôts	581	21,839			
		Otherwise disposed of.	15	885			
42,272	42,488	Sold	21,046	25,401	20,709	17,087	
		Otherwise ..	517	..			
520	2,915 1	Sold	516	2,900 1	4	15	
227	5,852 9	Sold	225	5,746	2	72 9	
		Otherwise ..	..	34			
1,509	11,461	Sold	996	7,387 9	236	3,681 5	(*c*) Includes 623 c.ft., the excess equivalent of 20 logs of the opening balance.
		Otherwise ..	277	391-6			
Tons. 685= Tons. lb.	34,250 C.ft.	Sold	Tons. 300= Tons. lb.	15,000 C.ft.	Tons. 385= Tons. lb.	19,250 C.ft.	
1,902 1,147¼	..	Sold	1,679 583	..	113 1,819¼	..	
		Otherwise ..	109 985	..			
..	1,898	Sold	..	1,898	..	..	
No. 14,289	..	Sold	No. 12,258	..	No. 2,031	..	
21,584	..	Sold	15,095	..	6,409	..	(*d*) Includes 3,660 bamboos purchased at the depôt for rafting purposes.
		Otherwise ..	80	..			
			Tons. lb.		Tons. lb.		
Tons. lbs.		Sold	33 28	..			
65 · 645¼	..	To other depôt	..	1,652	31 1,006¼	..	(*e*) Includes 1,652 lb. received from other depôts.
		Otherwise ..	..	199			
Mds. lb.			Mds. lb.	..	Mds. lb.	..	
1,540 4	..	Sold	1,520 16	..	16 18	..	(*f*) Includes 72 Mds. and 3 lb., equivalent of 2,961 measures. = 104 Mds.
		Otherwise ..	2 20	..			
No. 55,060	..	Sold	No. 55,060	..	..	..	
Meas.			Meas.		Meas.		
4,250¼	..	Sold	3,555¾	..	694¼	..	
		Otherwise ..	¼	..			

Abstract of Form No. 70.

—	Timbers.						Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Remarks.
	Teak.	Black or rosewood.	Vengai.	Other timbers.	Redwood roots.	Total timbers.					
Stock on 1st April 1888 ..	C. FT. 47,782 (a) — 17	C. FT. ..	C. FT. 4	C. FT. 246 (a) + 17	C. FT. Tons. 326= 16,300 C. ft.	C. FT. 64,332	C. FT. Tons. 429= 17,497 C. ft.	NO. Tons. 5= No. 5,885	C. FT. Tons. 36= 1,813 C. ft.	MDS. ..	(a) Miscellaneous timber erroneously classed under Teak in previous year.
Received from Forests ..	40,671	5,853	2,911	10,575	17,950	77,960	(c) 83,216	12,039	(b) 1,414	(e) 2,197	(b) Estimates at 50 cubic feet per ton.
Received from other sale depôts.	21,839	..	..	..	..	21,839	..	..	(b) 37	..	(c) Includes 22,332 cubic feet, estimate of No. 14,253.
Add quantity purchased and excess found in the depôt.	..	..	..	623	..	623	..	3,660	..	..	(d) Includes 2,382 cubic feet, estimate of No. 12,258.
Total ..	110,275	5,853	2,915	11,461	34,250	164,754	100,713	21,584	3,264	2,197	(e) Includes 657 maunds, estimate of 4,250 measures, and No. 55,060.
Sold from depôts	51,872	5,746	2,900	7,388	15,000	82,906	(d) 71,450	15,095	(b) 1,650	(f) 2,090	(f) Includes 570 maunds, estimate of 3,556 measures, and No. 55,060.
Otherwise disposed of ..	885	34	..	392	..	1,311	4,378	80	(b) 4	3	(g) Includes 87 maunds, estimate of 694 measures.
Removed to other sale depôts.	21,839	..	..	..	..	21,839	..	..	(b) 37	..	
Total ..	74,596	5,780	2,900	7,780	15,000	106,056	75,850	15,175	1,691	2,093	
Balance stock in depôts on 31st March 1889.	35,679	73	15	3,681	19,250	58,698	24,863	6,409	1,573	(g) 104	

Annual Form No. 71.

Forest Department, Madras, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89.

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally.		C. FT. LB.	RS. A. P.	RS. A. P.	RS. A. P.			
Chingleput — Kambakam	I (*a*).	Junglewood	..	6 or 198	0 8 0 per cubic feet.	3 0 0	3 0 0	..	..	
Kambakam	I (*b*).	Firewood stumps	..	Tons Lb. 44 1,120	1 0 0 per ton.	44 8 0	44 8 0	..	..	
Satheavedu	Do.	Do.	..	28 1,120	0 10 0	17 13 0	17 13 0	..	..	
Madras	Do.	Charcoal	..	9 *1,456 or 193 bags.	0 13 4 per bag.	160 13 4	160 13 4	..	..	* Obtained by conversion of 28 tons, 2,009 lbs. of wood.
Maiyur	Do.	Casuarina	..	1,091 1,281	4 0 0	4,375 7 6	4,375 7 6	..	..	
		Do.	..	28 ..	3 0 0	84 0 0	84 0 0	..	..	
		Do. branches	..	18 1,680	1 4 0	23 7 0	23 7 0	..	..	
		Do. do.	..	8 1,568	0 10 0	10 14 0	10 14 0	..	..	
Wallajabad	Do.	Do. wood	..	5 ..	2 8 0	12 8 0	12 8 0	..	..	
Chingleput	Do.	Firewood	..	55 1,512	Auction.	115 15 9	115 15 9	..	..	
		Total of I (*b*)	..	..	..	4,845 6 7	4,845 6 7	..	..	
		Total of the District	..	..	..	4,848 6 7	4,848 6 7	..	..	
		Sold from depôt.								
North Arcot — Mamandoor	I (*a*).	Redwood roots and stumps	Tons. 175	..	15 8 0 per ton.	2,712 8 0	2,712 8 0	..	..	
Nagapatla	Do.	Do. do.	,, 125	..	14 8 0 per ton.	1,812 8 0	1,812 8 0	..	..	
		Sold locally.								
Kilminnel	Do.	Casuarina trees	No. 14	..	At different rates.	34 8 0	34 8 0	..	..	
		Total of I (*a*)	..	..	..	4,559 8 0	4,559 8 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved	Remarks.
		Sold from depôt.	TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.			
North Arcot—*cont.* Vellore Central Jail..	I (*b*).	Casuarina, babul and jungle-wood.	164 1,252	..	3 4 0 per 1,000 lb.	1,197 15 2	1,015 14 4	..	..	
		Sold locally.								
Tiruvallam plantation.	Do.	Casuarina	579 ..	..	5 8 0 per ton.	3,184 8 0	1,600 8 0	..	..	
	Do.	Casuarina branches	196¼ ..	..	3 0 0 per ton.	589 8 0	..	..	..	
Kilminnel plantation.	Do.	Do.	21 ..	..	2 8 0 per ton.	52 8 0	52 8 0	..	..	
Balampet topes ..	Do.	Casuarina trees	No. 6 ..	..	3 0 0 per tree.	18 0 0	18 0 0	..	..	
Ammundy	Do.	Casuarina branch wood ..	Tons. 3½ ..	..	2 8 0 per ton.	8 12 0	8 12 0	..	..	
Virinjipuram ..	Do.	Charcoal	1 ..	..	25 0 0 per ton.	25 0 0	25 0 0	..	..	
	Do.	Do.	1 ..	..	23 4 0 per ton.	23 4 0	23 4 0	..	..	
Poramboke lands ..	Do.	Babul	..	7,811	5 8 0 per cubic feet.	613 11 7	613 11 7	..	..	
	Do.	Do.	5 ..	..	5 8 0 per ton.	27 8 0	27 8 0	..	..	
	Do.	Do.	10 ..	..	6 0 0 per ton.	60 0 0	60 0 0	..	..	
		Total ..	..	..	..	5,800 10 9	3,445 1 11	..	..	
		Add outstandings of previous years realized.	..	..	..	..	495 6 8	..	..	
		Total of I (*b*) ..	..	..	..	5,800 10 9	3,940 8 7	..	..	
		Sold from depôt.	Tons. Lb.							
Vellore Sandalwood depot.	I (*d*).	Sandalwood	8 2,180	..	5 14 0 per 28 lb.	4,217 6 6	4,217 6 6	..	..	
	Do.	Do.	.. 28	..	5 8 0 per 28 lb.	5 8 0	5 8 0	..	..	
	Do.	Do.	.. 28	..	5 0 0 per 28 lb.	5 0 0	5 0 0	..	..	
	Do.	Do. roots	14 487	..	5 2 0 per 28 lb.	5,829 2 3	5,829 2 3	..	..	
	Do.	Do. chips	8 648	..	..	88 0 0	88 0 0	..	..	
		Total of I (*d*) ..	..	..	..	10,145 0 9	10,145 0 9	..	..	
		Total of the District ..	..	..	..	20,505 3 6	18,645 1 4	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.		Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
			Sold from depot.			Rs. A. P.	Rs A. P.	Rs. A. P.			
South Arcot.	Tiruvannámalai ..	I (*a*).	Vengai poles	264	220 6	1 0 0	220 8 0	220 8 0	264	..	
		Do.	Do.	154	40 0	0 6 0	15 0 0	15 0 0	154	..	
		Do.	Acha	2	2 1	1 0 0	2 1 4	2 1 4	2	..	
		Do.	Mango wood	6	24 11	Auction at different rates.	2 4 0	2 4 0	6	..	
		Do.	Miscellaneous poles	217	453 10		292 13 6	292 13 6	217	..	
	Chidambaram ..	Do.	Do.	1	1 6	0 4 0	0 6 0	0 6 0	1	..	
			Sold locally.								
	Chengam forest ..	Do.	Vengai poles	32	89 9	Different.	60 6 4	60 6 4	32	..	
		Do.	Miscellaneous poles	35	173 9	Do.	123 15 3	123 15 3	35	..	
	Tiruvannámalai taluk forest.	Do.	Vengai poles	5	13 6	0 12 0	10 2 0	10 2 0	5	..	
		Do.	Miscellaneous timber poles ..	380	754 5	Different.	355 11 11	355 11 11	380	..	
	Cuddalore forest ..	Do.	Casuarina poles	2,293	1,264 10	Do.	245 6 3	245 6 3	2,293	..	
		Do.	Transport charge	..	..	..	10 10 0	10 10 0	..	..	
	Chidambaram forest.	Do.	Kandan poles	..	156 0	Do.	17 4 0	17 4 0	C. FT. 156	..	
			Total ..	..	..	..	1,356 8 7	1,356 8 7	..	..	
			Add outstandings of previous years realized.	..	..	..	..	12 6 0	..	..	
			Total of I (*a*).	..	..	..	1,356 8 7	1,368 14 7	..	..	
			Sold from depot.						tons. lb.		
	Tindivanam ..	I (*b*).	Firewood	Tons 20	..	6 0 0	120 0 0	120 0 0	20 0	..	
	Chidambaram ..	Do.	Kandan firewood	,, 3	lb. 1,014	3 0 0	10 5 9	10 5 9	3 1,014	..	
		Do.	Casuarina	,, 3	..	2 8 0	7 8 0	7 8 0	3 0	..	
			Sold locally.								
	Tindivanam forests.	Do.	Casuarina	,, 1	,, 1,120	Auction.	3 8 0	3 8 0	1 1,120	..	
		Do.	Babul firewood	,, 62	,, 320	4 8 0	279 10 3	279 10 3	62 320	..	
		Do.	Do.	,, 567	,, 320	5 8 0	3,119 4 5	3,119 4 5	567 320	..	
	Villupuram Do.	Do.	Do.	,, 108	,, 906⅔	4 0 0	433 9 11	433 9 11	108 906⅔	..	
		Do.	Do.	,, 9	..	3 0 0	27 0 0	27 0 0	9 0	..	
		Do.	Do.	..	112	Auction.	0 2 6	0 2 6	0 112	..	
	Cuddalore forests ..	Do.	Casuarina	,, 265	,, 1,624	Different.	1,133 14 9	1,008 14 9	265 1,624	..	
	Chidambaram do. ..	Do.	Do.	,, 17	..	Do.	21 13 0	21 13 0	17 0	..	
		Do.	Kandan firewood	,, 8	..	Do.	20 0 0	20 0 0	8 0	..	
			Total ..	..	..	..	5,176 12 7	5,051 12 7	..	..	
			Add outstandings of previous years realized.	..	..	..	..	1,116 15 5	..	..	
			Total of I (*b*).	..	..	..	5,176 12 7	6,168 12 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally—cont.								
South Arcot—*cont.* Villupuram	I (*c*).	Bamboos	No. 2	..	Rs. A. P. 0 6 0	Rs. A. P. 0 12 0	Rs. A. P. 0 12 0	2	..	
		Sold from depôt.								
Tiruvannámalai ..	I (*d*).	Sandalwood billets	..	lb. 98	0 2 10⅔ a lb.	17 8 0	17 8 0	lb. 98	..	
Cuddalore	Do.	Do.	..	„ 336	0 3 0 a lb.	63 0 0	63 0 0	„ 256	..	
		Total of I (*d*) ..	..	..	..	80 8 0	80 8 0	..	..	
		Sold from depôt.								
Tiruvannámalai ..	I (*e*).	Honey	..	lb. 336	0 2 0 a lb.	42 0 0	42 0 0	lb. 336	..	
	Do.	Wax	..	„ 35	0 7 0 a lb.	15 5 0	15 5 0	„ 35	..	
Tindivanam ..	Do.	Honey	..	„ 17½	0 3 0 a lb.	3 4 6	3 4 6	„ 17½	..	
	Do.	Wax	..	„ 4	0 4 5 a lb.	1 1 8	1 1 8	„ 4	..	
Cuddalore	Do.	Honey	..	„ 12 oz. 11	0 8 0 a lb.	6 5 6	6 5 6	lb. 12 oz. 11	..	
	Do.	Wax	..	.. „ 13	0 4 0 a lb.	0 3 3	0 3 3	.. 13	..	
Chidambaram ..	Do.	Silk cotton pods	No. 14,625	..	2 0 0 per 1,000	29 4 0	29 4 0	No. 14,625	..	
		Sold locally.								
Tiruvannámalai forests.	Do.	Neer Pungan seeds	..	lb. 640	0 3 0 a lb.	10 0 0	10 0 0	lb. 640	..	
Tindivanam do.	Do.	Wax	..	„ 17½	0 7 3 a lb.	7 14 11	7 14 11	„ 17½	..	
	Do.	Woodapple fruit	No. 14,500	..	0 2 0 per 100	18 2 0	18 2 0	No. 14,500	..	
	Do.	Casuarina seedlings	„ 200	..	0 4 0 per 100	0 8 0	0 8 0	„ 200	..	
Villupuram do.	Do.	Honey	..	lb. 4	auction	0 12 6	0 12 6	lb. 4	..	
	Do.	Wax	..	pols. 3	0 0 5 a pol.	0 1 3	0 1 3	pols. 3	..	
Tirukoilúr do.	Do.	Honey	..	lb. 16	0 3 0 a lb.	3 0 0	3 0 0	lb. 16	..	
Kallakurchi	Do.	Honey	..	„ 23	0 4 0 a lb.	5 12 0	5 12 0	„ 23	..	
		Total of I (*e*) ..	..	..	..	143 10 7	143 10 7	..	..	
		Total of the District ..	..	..	..	6,758 3 9	7,762 9 2	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold from depôt.			Rs. A. P.	Rs. A. P.	Rs. A. P.	No.		
Salem .. Pennagaram	I (*a*)	Acha	2	3 1	1 4 4	3 10 7	3 10 7	2	..	
Do.	Do.	Vengai	2	3 11	..	4 14 6	4 14 6	2	..	
Denkenicotah	Do.	Miscellaneous, including teak trees.	474	939 4	Different.	835 10 5	731 10 5	474	..	
		Total of I (*a*) ..	..	..	..	844 3 6	740 3 6	..	..	
		Sold from depôt.								
Salem	I (*b*)	Engine fuel	No. 11,560	..	1 0 0	289 0 0	289 0 0	11,560	..	
Do.	Do.	Firewood	..	1,898						
Denkenicotah ..		*Sold locally.*			..	128 6 3	107 13 3	8,217	..	
Do.	Do.	Firewood	..	6,319						
		Total of I (*b*) ..	..	..	..	417 6 3	396 13 3	..	..	
		Sold from depôt.								
Do.	I (*c*)	Bamboos	No. 424	..	..	54 0 0	54 0 0	424	..	
		Sold from depot.		Mds. lb.						
Do.	I (*d*)	Sandal-wood billets	..	72 16½	..	322 0 0	322 0 0	72 16½	..	
		Do. roots	..	37 9½				37 9½		
		Do. chips	..	7 17½				7 17½		
		Sold locally.								
Salem	Do.	Sandalwood	..	27	..	1 12 0	1 12 0	27	..	
Námakal forests ..	Do.	Do. pieces	No. 6	..	..	13 11 0	13 11 0	No. 6	..	
Tirupatúr do. ..	Do.	Do. do.	,, 4	..	..	0 11 0	0 11 0	,, 4	..	
		Total of I (*d*) ..	..	..	..	338 2 0	338 2 0	..	..	
		Total of the District ..	..	..	..	1,653 11 9	1,529 2 9	..	..	
		Sold locally.								
Trichinopoly. Elamanúr	I (*a*)	Vagai trees	3	..	10 0 0	30 0 0	30 0 0	No. 3	..	
		Casuarina do.	5	..	1 8 0	7 8 0	7 8 0	,, 5	..	
		Sissu do.	2	..	1 0 0	2 0 0	2 0 0	,, 2	..	
Kattalai	Do.	Miscellaneous do.	35	..	Different.	55 8 0	55 8 0	,, 35	..	
		Total of I (*a*) ..	..	..	..	95 0 0	95 0 0	..	..	
		Sold from depôt.						Tons. lb.		
Termadi	I (*b*)	Firewood	Tons 427	lb. 896	3 2 0	1,335 10 0	1,335 10 0	427 896	..	
Kumbakónam	Do.	Do.	,, 839	,, 896	Different.	3,627 7 0	3,627 7 0	839 896	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
			Sold locally.			Rs. A. P.	Rs. A. P.	Rs. A. P.	Tons. lb.		
Trichinopoly—*cont.*	Yedaiyathimangalam.	I (*b*)	Firewood	Tons. 80	..	7 0 0	560 0 0	350 5 3	80 0	..	
	Punganúr	Do.	Do.	,, 12	lb. 224	..	13 0 0	13 0 0	12 224	..	
	Elamanúr	Do.	Do.	,, 307	,, 896	Different.	905 14 0	905 14 0	307 896	..	
	Pettavaithalai	Do.	Do.	,, 8	..	0 15 0	7 8 0	7 8 0	8 0	..	
	Manattattai	Do.	Do.	,, 346	,, 224	Different.	1,424 5 5	1,424 5 5	346 224	..	
	Lalapet	Do.	Do.	,, 588	,, 945	Do.	2,241 10 5	2,241 10 5	588 945	..	
	Sittalavoi	Do.	Do.	,, 420	..	Do.	1,293 0 0	1,293 0 0	420 0	..	
	Kattalai	Do.	Do.	,, 302	..	Do.	1,033 0 0	1,033 0 0	302 0	..	
	Mayanur	Do.	Do.	,, 246	,, 285	Do.	579 12 11	579 12 11	246 285	..	
	Ambásamudram ..	Do.	Do.	,, 590	..	Do.	1,479 6 0	1,479 6 0	590 0	..	
	Mahadanapuram ..	Do.	Do.	,, 142	,, 2,072	5 0 0	714 10 0	..	142 2,072	..	
		Do.	Do.	,, 121	..	4 8 0	544 8 0	544 8 0	121 0	..	
		Do.	Do.	,, 97	,, 73	4 0 0	388 2 1	..	97 73	..	
		Do.	Do.	,, 32	..	3 8 0	112 0 0	112 0 0	32 0	..	
		Do.	Do.	,, 50	..	0 8 0	25 0 0	25 0 0	50 0	..	
	Sorupamalai	Do.	Do.	,, 96	,, 112	2 8 0	240 2 0	240 2 0	96 112	..	
	Kavaipakkam	Do.	Do.	,, 18	..	6 0 0	108 0 0	108 0 0	18 0	..	
			Total of I (*b*) ..	..	..	..	16,632 15 10	15,320 9 0	..	..	
			Sold locally.								
	Elamanúr	I (*c*).	Bamboos	No. 144	..	At 6 per rupee.	24 0 0	24 0 0	No. 144	..	
			Do. Bundles	,, 8	..	0 2 0	1 0 0	1 0 0	,, 8	..	
	Manattattai	Do.	Do.	,, 78	..	At 6 per rupee.	13 0 0	13 0 0	,, 78	..	
			Do. Bundles	,, 13	..	0 2 0	1 10 0	1 10 0	,, 13	..	
			Total of I (*c*) ..	..	..	..	39 10 0	39 10 0	..	..	
			Sold locally.						Tons. lb.		
	Pudúr	I (*e*).	Babul pod	Tons. 12	..	Auction.	26 0 0	26 0 0	12 0	..	
					lbs.						
	Marmathur	Do.	Vembadam bark	..	327 5/16 1st class. 929 1/4 2nd class.	Do.	51 4 0	51 4 0	1,256 9/16	..	
			Do.	..	58 1/4 1st class. 116 5/6 2nd class.	Different.	22 10 4	22 10 4	175 1/12	..	
	Sengattupatti	Do.	Gallnuts	Meas. 800	..	Auction.	47 6 3	47 6 3	Meas. 800	..	
	Manalodai	Do.	Do.	,, 800	..	Do.	47 6 3	47 6 3	,, 800	..	
			Total of I (*e*) ..	..	..	..	194 10 10	194 10 10	..	..	
			Total of the District ..	..	..	..	16,962 4 8	15,649 13 10	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally.			Rs. A. P.	Rs. A. P.	Rs. A. P.	Tons. lb.		
Tanjore .. Vettangudi	I (*b*).	Firewood	Tons. 1	..	1 8 0	3 12 0	3 12 0	4 0	..	
	Do.	Do.	„ 3	..	0 12 0					
		Total of the District ..	..	..	..	3 12 0	3 12 0	..	..	
North Coimbatore. ..	..	....	..	..	..	..	..	..	..	
		Sold from depôt.								
South Coimbatore. Coimbatore	I (*a*).	Teak	414	16,422 11 9	Different.	25,177 2 7	25,133 6 0	414	..	411 $\frac{108}{1728}$ candies.
	Do.	Do. rafters	20	195 0 9	Do.	196 10 5	196 10 5	20	..	
	Do.	Benteak	168	5,138 11 2	6½ per candy.	2,672 3 11	2,672 3 11	168	..	402 $\frac{1152}{1728}$ do.
	Do.	Rosewood	176	5,036 7 4	11 do.	4,432 3 6	4,432 3 6	176	..	203 $\frac{1296}{1728}$ do.
	Do.	Vengai	92	2,541 0 3	10 do.	2,032 13 1	2,032 13 1	92	..	37 $\frac{1296}{1728}$ do.
	Do.	Agil	11	464 5 9	6½ do.	241 8 6	241 8 6	11	..	2 $\frac{576}{1728}$ do.
	Do.	Mal Vengai	1	27 1 1	6½ do.	14 1 5	14 1 5	1	..	
Vellarugu	Do.	Miscellaneous	29	757 7 9	Different.	426 2 6	426 2 6	29	..	
	Do.	Teak logs	3	109 6 11	Do.	176 12 8	176 10 8	3	..	
Pollâchi	Do.	Do. rafters	213	1,905 3 7	1 0 0	1,905 5 3	1,905 5 3	213	..	
	Do.	Do. logs	6	239 2 8	Different.	390 12 11	390 12 11	6	..	
Anaimalai	Do.	Do.	151	2,447 11 1	Do.	1,843 7 6	1,766 3 2	151	..	
	Do.	Rosewood	9	98 2 4	0 12 0	73 10 4	73 10 4	9	..	
Angalakurchi ..	Do.	Do.	40	610 10 6	Different.	421 8 0	421 8 0	40	..	
		Total of I (*a*) ..	..	..	..	40,004 6 7	39,883 3 8	..	..	
		Sold locally.								
Bolampatty	I (*b*).	Firewood	Tons. 8	lb. 213	5 0 0	40 7 7	40 7 7	..	..	
		Sold from depôt.								
Anaimalai	I (*e*).	Dammer, 1st sort	..	Vis. 2¾	..	2 1 0	..	..	..	
	Do.	Do. 2nd Do.	Mds. 115	„ 5½	..	245 13 4	..	..	..	
	Do.	Wax	„ 61	„ 2$\frac{4}{13}$	..	579 7 9	..	..	..	
	Do.	Seekoy	„ 308	„ 6	..	326 15 9	..	..	..	
	Do.	Mattipal	..	„ 3¾	..	2 13 0	..	..	..	
	Do.	Pepper	..	„ 1½	..	1 5 0	..	..	..	
	Do.	Deer horns	„ 4	„ 7¼	..	13 7 11	..	..	..	
	Do.	Cardamoms	„ 37	„ 2¼	..	708 3 3	..	..	..	
	Do.	Honey	..	Meas. 67½	..	14 0 0	..	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold from depôt—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Coimbatore—*cont.* — Anaimalai—*cont.*	I (*e*).	Canes, 1st sort	50	..	..	2 0 0	..	..	..	
	Do.	Do. 2nd do.	15,705	..	..	295 7 1	..	..	..	
	Do.	Do. 3rd do.	8,350	..	..	114 13 0	..	..	..	
	Do.	Do. 4th do.	8,888	..	..	66 10 7	..	..	..	
	Do.	Canes	2,917	..	..	12 2 0	..	..	..	
		Sold locally.	Mds. Vis.							
	Do.	Dammer, 1st sort	0 5½	..	..	2 12 0	..	..	..	
	Do.	Do. 2nd do.	171 2½	..	..	364 0 8	..	..	..	
	Do.	Do. 3rd do.	13 1	..	..	21 5 3	..	..	..	
	Do.	Seekoy	57 0	..	..	61 11 5	..	..	..	
	Do.	Wax	139 4	..	..	1,323 10 2	..	..	..	
	Do.	Mattipal	0 2	..	..	1 8 0	..	..	..	
	Do.	Pepper	0 2½	..	..	2 3 0	..	..	..	
	Do.	Deer horns	2 1½	..	..	6 0 3	..	..	..	
	Do.	Cardamoms	34 6¾	..	..	662 0 6	..	..	..	
	Do.	Honey	Meas. 1,124½	..	..	250 5 4	..	..	..	
	Do.	Canes, 2nd sort	No. 2,444	..	..	48 14 0	..	..	..	
	Do.	Do. 3rd do.	„ 1,931	..	..	26 9 4	..	..	..	
	Do.	Do. 4th do.	„ 150	..	..	1 2 0	..	..	..	
	Do.	Gallnuts	Mds. 504 Vis. 2	..	..	409 5 9	..	..	..	
		Total of I (*e*)	..	..	..	5,566 11 4	5,557 3 3	..	..	
		Total of the District	..	..	..	45,611 9 6	45,480 14 6	..	..	
Madura .. — Uttamapaliem	I (*a*)	Teak thinnings	..	C. ft. 500	Auction.	113 0 0	113 0 0	..	..	
	Do.	Vengai	..	„ 30	Do.	11 0 0	11 0 0	..	..	
	Do.	Teak	..	„ 16	Do.	32 0 0	32 0 0	..	..	
	Do.	Vengai	..	„ 155·29	2 0 0	316 14 9	316 14 9	..	..	
	Do.	Do.	..	„ 35·64	2 8 0	89 2 0	89 2 0	..	..	
	Do.	Do.	..	„ 277·305	Different.	519 3 10	519 3 10	..	..	
	Do.	Do.	..	„ 2008·71 & sq. ft. 85·75	Auction.	2,953 10 11	2,953 10 11	..	..	
Kodaikánal	Do.	Do.	..	„ 7·58	0 0 8	1 14 4	1 14 4	..	..	
	Do.	Do.	..	„ 40·43	0 4 0	10 1 9	10 1 9	..	..	
	Do.	Do.	..	„ 468·79	0 3 0	87 11 4	87 11 4	..	..	
	Do.	Miscellaneous	..	C. ft. 186·5	..	222 2 0	222 2 0	..	..	
	Do.	Do.	..	..	..	1 4 0	1 4 0	..	..	
	Do.	Amount of hire realized on Government carts.	..	..	..	38 8 6	38 8 6	..	..	
Alagar Hill	Do.	Junglewood	..	„ 61	Different.	7 6 0	7 6 0	..	..	
		Total of I (*a*)	..	..	..	4,403 15 5	4,403 15 5	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold from depôt.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Madura—*cont.* Kodaikánal	I (*b*)	Firewood	Tons 8	..	4 0 0	32 0 0	32 0 0	..	..	
	Do.	Do.	,, 212	lb. 1,745	3 0 0 per 1,000 lb.	1,429 14 0	1,429 14 0	..	..	
	Do.	Do.	,, ..	,, 1,500	2 0 0 per 1,000 lb.	3 0 0	3 0 0	..	..	
	Do.	Amount realized on sale of 698 cross bars	,, ..	,, ..	..	7 10 0	7 10 0	..	..	
	Do.	Amount of hire realized on Government carts	,, ..	,, ..	..	255 7 9	255 7 9	..	..	
		Sold locally.								
Madura—*cont.* Alagar Hill.. ..	Do.	Firewood	,, 1,224	,, 840	3 8 0	4,285 5 0	4,285 5 0	..	..	
	Do.	Do.	,, 1	,, 560	2 8 0	3 2 0	3 2 0	..	..	
	Do.	Do.	,, 172	,, 112	1 4 0	214 12 0	214 12 0	..	..	
	Do.	Do.	,, 359	,, 972	Different rates.	710 9 8	710 9 8	..	..	
	Do.	Do.	,, 2	..	Auction.	11 3 3	11 3 3	..	..	
	Do.	Do.	,, 90	,, 448	0 13 4	75 2 8	75 2 8	..	..	
		Total of I (*b*) ..	,, ..	..	..	7,028 2 4	7,028 2 4	..	..	
Do.	I (*e*)	Manure leaves and thatching grass	Ton. lb. 6 784	,, ..	Different rates.	18 5 6	18 5 6	..	..	
		Honey	Meas. 40	,, ..	Auction.	25 0 0	25 0 0	..	..	
		Total of I (*e*) ..	,, ..	..	..	43 5 6	43 5 6	..	..	
		Total of the District ..	,, ..	..	..	11,475 7 3	11,475 7 3	..	..	
		Sold from depôt.		C. ft.						
Tinnevelly. Ambásamudram ..	I (*a*)	Kongulogs, &c.	No. 90	120 10 0	Different.	135 13 8	135 13 8	90	..	
		Sold locally.								
Pambanar, Kannikatti, Enjithavalam and Ullar forests ..	Do.	Teak	..	102 0 0	Different.	31 0 0	31 0 0	102	..	
	Do.	Kongu planks	,, 187	924 0 0	1 12 0 per cubic feet.	1,617 0 0	1,617 0 0	187	..	
	Do.	Kongu planks, &c.	,, 531	888 10 11	Do.	970 11 6	970 11 6	531	..	
Pachapil forest ..	Do.	Do.	,, 246	351 5 10	Do.	379 6 6	379 6 6	246	..	
Mimdanthorai, Manjur Theri, and Tharivillanparai forests	Do.	Miscellaneous timbers	,, ..	1,729 0 0	Do.	159 14 9	159 14 9	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally—cont.								
Tinnevelly *cont.*— Papanasam	I (*a*)	Kongu logs	6	37 4 0	Rs. A. P. 1 12 0 per C. ft.	Rs. A. P. 65 5 4	Rs. A. P. 65 5 4	No. 6	..	
Aiyinathadam, Nenjumutti and Arinjanodai forests.	Do.	Miscellaneous timber	..	1,958 0 0	Auction.	229 0 0	229 0 0	C. ft. 1,958	..	
		Total of I (*a*) ..	..	..	..	3,588 3 9	3,588 3 9	..	..	
		Sold locally.						Tons. Lb.		
Mundanthorai, Manjeri Teri and Thari-villangarai forest.	I (*b*)	Firewood	Tons 16	lb. 1,120	3 3 0 per ton.	52 9 6	52 9 6	16 1,120	..	
	Do.	Do.	,, 7	,, 1,129	5 4 0 per ton.	39 6 0	26 4 0	7 1,120	..	
	Do.	Do.	,, 557	,, 2,100	Different.	964 1 10	964 1 10	557 2,100	..	
Valaikulam hill ..	Do.	Do.	,, 30	..	Auction.	120 0 0	120 0 0	30 0	..	
Nenjumutti, &c., forest.	Do.	Do.	,, 350	..	Do.	982 8 0	755 0 0	350 0	..	
Mandanthorai, &c., forest.	Do.	Charcoal	,, 185	,, 1,896	Different.	1,241 14 0	1,241 14 0	185 1,896	..	
Nenjumutti, Aiyanathadam and Arinjanodai forest.	Do.	Do.	,, 51	,, 952	Auction.	540 2 10	540 2 10	51 952	..	
		Outstanding revenue of the previous year realized.	..	..	..	..	16 8 0	..	..	
		Total of I (*b*) ..	..	..	..	3,940 10 2	3,716 8 2	..	..	
		Sold from depôt.								
Ambásamudram ..	I (*c*)	Bamboo pattais	No. 750	..	Different.	14 10 0	14 10 0	No. 750	..	
Tinnevelly	Do.	Do.	,, 5,055	..	Auction.	90 4 0	90 4 0	,, 5,055	..	
		Mixed sale.								
Kariar forest and depôt.	Do.	Bamboo mallas	,, 355	..	1 8 0 per 300	1 12 4	1 12 4	,, 355	..	
		Do. varies	,, 112	..	1 8 0 per 200	0 13 5	0 13 5	,, 112	..	
		Do. pattais	,, 450	..	1 8 0 per 600	1 2 0	1 2 0	,, 450	..	
Mundanthorai and Thari Villanparai forests.	Do.	Bamboos	..	lb. 112	1 anna per 56 lbs.	0 2 0	0 2 0	lb. 112	..	
		Sold locally.								
Tambraparni river side.	Do.	Bamboos	23 141/600 cart loads.	..	Different.	313 11 4	313 11 4	23 141/600 cart loads	..	
	Do.	Do.	20 Head loads.	..	Auction.	1 1 0	1 1 0	20 Head loads.	..	
		Total of I (*c*) ..	..	..	..	423 8 1	423 8 1	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.		Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
			Sold from depôt.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Tinnevelly—*cont.*	Vasudevanallur ..	I (*e*)	Honey	Meas. 35	..	Different	41 6 0	41 6 0	Meas. 16	..	
	Ambásamudram ..	Do.	Do.	,, $30\frac{3}{4}$	..	do.	33 8 6	33 8 6	Meas. $30\frac{3}{4}$	..	
	Vasudevanallur ..	Do.	Wax	pols. 131	..	9-8-0 per 144 pols.	8 10 3	8 10 3	pols. 131	..	
	Ambásamudram ..	Do.	Dammer	,, 173	..	1-12-0 per 144 pols.	2 1 8	2 1 8	do. 173	..	
	Do. ..	Do.	Cardamoms	tolams. pols. 28 0	..	Rs. 13 per tolam.	364 0 0	364 0 0	tolams. pols. 28 0	..	
	Do. ..	Do.	Gallnuts	2,298 Measures, = 17 pothis 1,180 pols.	..	Rs. 9-10-0 per pothy of 2,000 pols.	169 4 11	169 4 11	Meas. 2,298	..	
			Sold locally.								
	Tenkási forests ..	Do.	Honey	Meas. $10\frac{5}{16}$	..	Different.	10 0 6	10 0 6	,, $10\frac{5}{16}$	..	
	Mandanthorai, &c., forests.	Do.	Do.	,, 34	..	do.	42 11 0	42 11 0	,, 34	..	
	Nángunéri forests ..	Do.	Do.	,, $53\frac{1}{2}$	..	do.	47 9 0	47 9 0	,, $53\frac{1}{2}$	..	
	Tenkási do. ..	Do.	Wax.	pols. 30	..	Rs. 11-0-0 per 144 pols.	2 4 8	2 4 8	pols. 30	..	
	Mundanthorai forests	Do.	Do.	,, 87	..	1 anna per pols.	5 7 0	5 7 0	,, 87	..	
	Nángunéri Do.	Do.	Do.	,, 393	..	do.	24 9 0	24 9 0	,, 393	..	
	Mandanthorai Do.	Do.	Dammer	,, 200	..	Rs. 1-12-0 per tolam.	3 8 0	3 8 0	,, 200	..	
		Do.	Nungu seeds	Meas. 538	..	1 anna per Meas.	33 10 0	33 10 0	Meas. 538	..	
			Tamarind fruit	Cotas. $2\frac{1}{2}$	..	Rs. 1-8-0 per coth.	3 12 0	3 12 0	Cotas. $2\frac{1}{2}$	..	
			Rattan	lbs. 112	..	2 annas per 56 lbs.	0 4 0	0 4 0	lbs. 112	..	
			Thatching grass	,, 56	..	at 3 pies.	0 0 3	0 0 3	,, 56	..	
			Total of I (*e*) ..	..	..	..	792 10 9	792 10 9	..	..	
			Total of the District ..	..	..	..	8,745 0 9	8,520 14 9	..	..	
North Malabar.	Chedlet Begurnadri ..	I (*a*)	Teak	..	60,853	..	22,367 7 0	22,367 7 0	..	..	
	Begur	Do.	Vengai	..	52	..	14 10 0	14 10 0	..	..	
		Do.	Miscellaneons	..	75	..	17 8 8	17 8 8	..	..	
			Total of I (*a*) ..	..	..	..	22,399 9 8	22,399 9 8	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.		Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							Rs. A. P.	Rs. A. P.			
North Malabar —*cont.*	Manantoddy ..	I (*e*)	Honey	..	lbs. 235	Rs. 0 3 0 per lb.	44 1 0	44 1 0	..	..	
		Do.	Cardamom	..	,, 368	27 per tolam of 32 lb.	310 8 0	310 8 0	..	..	
			Total of I (*e*) ..	..	..	..	354 9 0	354 9 0	..	..	
			Total of the District ..	..	..	..	22,754 2 8	22,754 2 8	..	..	
			Sold locally.								
South Malabar.	Kanakut forests ..	I (*a*)	Blackwood	105	2,867	Rs. 12 8 0 per candy of 13 C. ft.	2,756 11 8	2,756 11 8	..	..	
		Do.	Miscellaneous	297	8,783	..	2,202 9 3	2,202 9 3	..	..	
	Valuvasheri ..	Do.	Teak	5	65	Rs. 2 8 0	12 8 0	3,608 8 0	..	..	
		Do.	Blackwood	52	676	,, 2 8 0	130 0 0				
		Do.	Miscellaneous	1,577	20,501	,, 2 8 0	3,942 8 0				
	Panangod forests ..	Do.	Do.	27	* 795	,, 2 12 0	26 10 6	168 2 10	..	..	* Includes 435 cubic feet, outstandings of previous year re-sold.
	Pullyampully and Elival forests.	Do.	Blackwood	1	18	10 0 0 per 12½ C. ft.	14 6 5	14 6 5	..	..	
		Do.	Vengai	1	33	7 0 0	18 7 8	18 7 8	..	..	
		Do.	Miscellaneous	308	10,840	..	4,240 10 3	4,240 10 3	..	..	
			Sold from depôt.								
	Kallai	Do.	Teak saplings	21,046	25,401½	..	29,632 5 7	29,632 5 7	..	..	
			Total of I (*a*) ..	..	..	..	42,976 13 4	42,641 13 8	..	..	
			Sold from depôt.								
	Do.	I (*b*)	Firewood	† Tons. 12¾	C. ft. 1,700	..	60 12 0	60 12 0	..	..	† By book adjustment with Jail department.
			Sold from depôt.								
		I (*e*)	Bamboos	No. 8,621	..	Rs. 10 0 0 per 100.	862 1 7	862 1 7	..	..	
		Do.	Do. pieces	,, 179	..	1 8 0	2 11 0	2 11 0	..	..	
		Do.	Do. Kayikols	,, 66	..	0 8 0	0 5 3	0 5 3	..	..	
			Sold locally.								
	Nilambúr River ..	Do.	Bamboos, whole	,, 62	..	8 0 0	4 15 4	4 15 4	..	..	
			Total ..	..	..	..	870 1 2	870 1 2	..	..	
			Add previous year's outstanding realized.	..	..	..	..	261 0 0	..	..	
			Add as per Examiner's Accounts.	..	..	..	215 8 0	..	..	..	
			Total of I (*e*) ..	..	..	..	1,085 9 2	1,131 1 2	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Malabar —*cont.* — Nilambúr Range—*cont.*	I (*e*)	Bees wax	..	lb. 346 or 13 $\frac{2}{25}$ mds.	0 10 0 per lb.	216 4 0	216 4 0	..	..	
Pálghat	Do.	Do.	..	lb. 16 or $\frac{16}{25}$ mds.	..	8 5 4	8 5 4	..	..	
	Do.	Honey	..	12 seers.	0 10 0 per seer.	7 8 0	7 8 0	..	..	
	Do.	Cocoanut	560	..	..	8 1 6	8 1 6	..	..	
Nilambúr	Do.	Dammer	..	lb. 1,280 or 51 mds.	0 1 0	80 0 0	80 0 0	..	..	
Arimbarakuta forests.	Do.	Jack fruits	..	..	..	4 0 0	4 0 0	..	..	
		Total of I (*e*) ..	..	..	..	324 2 10	324 2 10	..	..	
		Total of the District ..	..	..	..	44,231 13 4	44,157 13 8	..	..	
		Sold from depôt.								
Mangalore	I (*a*)	Vengai	3	67 8	11 0 0 per 12½ c. ft.	58 7 11	58 7 11	3	..	
	Do.	Miscellaneous	169	4,634 4	Different.	3,556 13 5	3,556 13 5	169	..	
	Do.	Ferry boats, large	1	..	250 0 0	250 0 0	250 0 0	1	..	
	Do.	Do. small	11	..	220 0 0	2,420 0 0	2,420 0 0	5	6	
		Sold locally.								
Coondapoor	Do.	Rosewood logs	1	21 ..	15 0 0 per 12½ c. ft.	22 11 4	22 11 4	1	..	
	Do.	Miscellaneous	48	1,217 6	Different.	828 14 8	828 14 8	46	..	
	Do.	Do.	1	20 8	Auction.	6 10 0	6 10 0	1		
South Canara. — Judkal Coondapoor ..	Do.	Top pieces of miscellaneous trees	2	14 3	Do.	11 8 0	11 8 0	4	..	
	Do.	Miscellaneous	2	48 6						
	Do.	Do. hollow	1	60 ..	Do	4 0 0	4 0 0	1	..	
	Do.	Do. trees	2	42 4	Do.	8 8 0	8 8 0	2	..	
Sarpadie Perla ..	Do.	Do. logs	1	36 5	13 8 0 per 12½ c. ft.	990 9 1	990 9 1	47	..	
			46	1,316 ..	Different.					
Malalabidu (Uppinangadi range).	Do.	Top pieces of miscellaneous trees.	1	..	Auction.	4 0 0	4 0 0	2	..	
	Do.	Miscellaneous trees, hollow ..	1							
Parappar (Kásaragód).	Do.	Teak poles	26	..	Do.	0 13 0	0 13 0	26	..	
		Total of I (*a*) ..	..	..	..	8,162 15 5	8,162 15 5	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally.	Tons. lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Tons. lb.	Tons. lb.	
South Canara—*cont.* Sabladi reserve (Coondapoor Range).	I (*b*)	Loppings	17 61	..	Auction.	70 11 3	70 11 3	17 61	..	
	Do.	Firewood	34 209	..	Rs. 4 a ton.	136 1 5	136 1 5	29 209	5 ..	
Sarpanamane forests.	Do.	Do.	.. 1,120	..	Auction.	1 11 0	1 11 0	.. 1,120	..	
			No.					No.		
Reserved Lands, Nos. 225 and 217.	Do.	Posts	25	..	..	12 3 0	12 3 0	25	..	
			Tons. Lb.					Tons. Lb.		
Coondapoor	Do.	Charcoal	.. 112	..	Auction.	3 8 0	3 8 0	.. 112	..	
Mangalore	Do.	Do.	2 964	..	Do.	37 0 0	37 0 0	2 964	..	
Tannirbhavi plantation.	Do.	Twigs of casuarina	2 1.445	..	Do.	2 6 0	2 6 0	2 1,445	..	
Ullal plantation ..	Do.	Casuarina logs	29 1,252	..	Do.	155 0 0	155 0 0	29 1,252	..	
	Do.	Do. billets	59 1,344	..	Do.	250 0 0	250 0 0	59 1,344	..	
	Do.	Do. branches	7 404	..	Do.	23 0 0	23 0 0	7 404	..	
	Do.	Do. twigs	8 2,105	..	Do.	19 8 0	19 8 0	8 2,105	..	
	Do.	Do. stump	13 1,908	..	Do.	10 0 0	10 0 0	13 1,908	..	
	Do.	Do. roots and chips ..	6 1,431	..	Do.	20 0 0	20 0 0	6 1,431	..	
	Do.	Do. stakes	.. 1,792	..	Do.	2 8 0	2 8 0	.. 1,792	..	
	Do.	Calophylum Inophylum Billets.	2 ..	..	Do.	5 8 0	5 8 0	2 ..	..	
	Do.	Do. Branches.	2 2,117	..	Do.	3 0 0	3 0 0	2 2,117	..	
		Sold locally.								
Poitaji reserve ..	Do.	1st-class billets	16 257	..	Do.	66 0 0	66 0 0	16 257	..	
Mangalore do. ..	Do.	Do. of Poitaji reserve ..	2 1,700	..	Do.	13 13 6	2 0 6	2 1,700	..	
Poitaji do. ..	Do.	2nd-class billets	10 1,792	..	Do.	22 0 0	22 0 0	10 1,792	..	
Mangalore do. ..	Do.	3rd-class firewood of Poitaji reserve.	11 560	..	Do.	83 10 6	83 10 6	11 560	..	
Kayerpalla do. ..	Do.	1st-class billets	29 804	..	Do.	115 8 0	115 8 0	29 804	..	
Mangalore do. ..	Do.	2nd-class do.	18 2,016	..	Do.	38 8 0	38 8 0	18 2,016	..	
		3rd-class firewood of Kayerpalla.	16 1,487	..	Do.	106 1 6	106 1 6	16 1,487	..	
		Total of I (*b*) ..	..	..	..	1,197 10 2	1,185 13 2	..	..	
		Sold locally.								
Coondapoor	I (*e*)	Myrabolams	20 1,792	..	..	636 15 5	636 15 5	20 1,792	..	
		Shige pods	11 1,932	..	..	929 1 7	929 1 7	11 1,932	..	
		Pepper	.. 203	..	..	80 11 4	80 11 4	.. 203	..	
		Nuxvomica seeds	.. 39	..	..	0 5 6	0 5 6	.. 39	..	
		Cinnamon flowers	6 1,369	..	..	2,122 1 10	2,122 1 10	6 1,369	..	
		Wax, 1st sort	.. 313	..	..	198 8 9	198 8 9	.. 313	..	
		Do. 2nd do.	.. 212	..	..	108 13 10	108 13 10	.. 212	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally—cont.	Tons lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Tons. lb.		
South Canara—*cont.* Coondapoor—*cont.*	I (*e*)	Honey	.. 402	..	..	71 15 3	71 15 3	.. 402	..	
		Deer horns	.. 367	..	..	58 11 4	58 11 4	.. 367	..	
		Wild nutmegs	4 1,876	..	..	390 0 10	390 0 10	4 1,876	..	
		Catechu	5 1,243	..	..	3,377 7 3	3,377 7 3	5 1,243	..	
Udipi	Do.	Myrabolams	5 1,598	..	..	176 15 8	176 15 8	5 1,598	..	
		Shige pods	7 2,103	..	..	653 0 2	653 0 2	7 2,103	..	
		Pepper	.. 35	..	..	11 12 0	11 12 0	.. 35	..	
		Nuxvomica seeds	.. 1,091	..	..	23 10 1	23 10 1	.. 1,091	..	
		Cinnamon flowers	1 167	..	..	302 13 0	302 13 0	1 167	..	
		Wax, 1st sort	.. 33	..	..	18 2 0	18 2 0	.. 33	..	
		Do. 2nd sort	.. 24	..	..	11 5 5	11 5 5	.. 24	..	
		Honey	.. 46	..	..	6 4 0	6 4 0	.. 46	..	
		Deer horns	.. 71	..	..	12 15 0	12 15 0	.. 71	..	
		Wild nutmegs	11 643	..	..	1,166 3 11	1,166 3 11	11 643	..	
		Cardamom	.. 6	..	..	7 9 0	7 9 0	.. 6	..	
Mangalore	Do.	Myrabolams	1 2,099	..	..	74 4 2	74 4 2	All.	..	
		Shige pods	8 988	..	..	668 6 0	668 6 0			
		Pepper	.. 15	..	..	5 10 4	5 10 4			
		Nuxvomica seeds	1 1,839	..	..	122 12 6	122 12 6			
		Cinnamon flowers	18 1,676	..	..	7,902 12 0	6,286 4 0			
		Wax, 2nd sort	.. 16	..	..	8 6 6	8 6 6			
		Honey	.. 104	..	..	15 1 9	15 1 9			
		Deer horns	.. 80	..	..	12 13 9	12 13 9			
		Wild mace	54 1,231	..	..	30,517 6 7	30,517 6 7			
		Do. nutmeg	5 1,643	..	..	261 0 5	261 0 5			
		Bark of Terminalia Tomentosa.	1 1,750	..	..	16 12 0	16 12 0			
		Konde bark	1 665	..	..	64 13 6	64 13 6			
		Shige powder	.. 8	..	..	0 1 8	0 1 8			
		Fruits of Calophylum Inophylum.	.. 113	..	..	2 13 0	2 13 0			
		Wood oil	.. 645	..	..	207 7 9	207 7 9			
Uppinangadi	Do.	Myrabolams	.. 629	..	..	12 5 6	12 5 6			
		Shige pods	25 1,886	..	..	1,831 1 6	1,831 1 6			
		Pepper	.. 141	..	..	53 6 6	53 6 6			
		Nuxvomica seeds	1 102	..	..	57 5 3	57 5 3			
		Wax, 1st sort	.. 14	..	..	7 12 6	7 12 6			
		Honey	.. 21	..	..	3 1 0	3 1 0			
		Deer horns	.. 59	..	..	7 13 0	7 13 0			
		Wild mace, spoiled	.. 91	..	..	21 15 5	21 15 5			
		Wild nutmeg	90 1,559	..	..	6,614 10 2	6,614 10 2			
		Resin (Vataria Malabarica)	.. 756	..	..	45 3 6	45 3 6			
		Guggul Dhup (a kind of Resin).	.. 28	..	..	1 1 0	1 1 0			

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
		Sold locally—cont.	No.		Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Canara —*cont.* Uppinangadi—*cont.* ..	I (*e*).	Canes called Nagapettas ..	825	..	..	64 11 11	64 11 11	All.	..	
			Tons. lb.							
		Cardamons	.. 18	..	..	27 0 0	27 0 0			
		Wood oil	.. 189	..	..	61 0 0	61 0 0			
Kásaragód Range ..	Do.	Nuxvomica seeds	.. 28	..	Auction.	0 14 6	0 14 6			
		Shige pods	.. 6	..						
		Myrabolams	.. 40	..						
		Shige pods	.. 266	..	..	8 12 4	8 12 4			
		Cinnamon flowers	.. 1,522	..	..	146 8 10	146 8 10			
		Deer horns	.. 47	..	..	7 8 10	7 8 10			
		Wild nutmeg	.. 402	..	..	11 13 7	11 13 7			
		Kadshige bark	14 308	..	37 0 0 per ton.	452 6 5	452 6 5			
		Total ..	..	..	..	59,682 8 10	58,066 0 10	..	..	
		Outstandings of previous year realized.	..	..	..	..	1 0 0	..	..	
		Total of I (*e*) ..	..	..	..	59,682 8 10	58,067 0 10	..	..	
		Total of the District ..	..	..	..	69,043 2 5	67,415 13 5	..	..	
		Grand Total ..	..	..	..	2,52,808 6 2	2,48,243 15 11	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Quantity sold.	Rate.	Sold from depôt.	Sold from forest.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
						RS. A. P.	RS. A. P.			
	I (*a*).	....	..	C. ft. 205,536	..	41,955 12 11	86,438 7 4			
	I (*b*).	....	..	,, 481,537	..	8,087 9 8	37,057 0 7			
	I (*c*).	....	..	No. 18,745	..	1,239 7 10	363 15 5	..	..	
	I (*d*).	....	..	C. ft. 1,653	..	10,547 8 9	16 2 0			
	I (*e*).	....	..	Mds. 31,610	..	3,092 2 11	64,010 2 9			
		Total ..	..	..	..	64,922 10 1	1,87,885 12 1	..	..	
								Abstract of amount realized.		
		Grand Total of sales during the year both from depôt and forests ..				..	2,52,808 6 2	I (*a*).	RS. A. P. 1,27,846 7 8	
		Add outstandings due from previous year, as per form No. 66 ..				..	1,917 12 5	I (*b*).	42,707 8 8	
								I (*c*).	1,648 15 3	
								I (*d*).	10,563 10 9	
								I (*e*).	65,477 5 7	
		Total ..				..	2,54,726 2 7	Total ..	2,48,243 15 11	
		Deduct amount realized during the year ..				..	2,48,243 15 11		..	
		Balance outstanding on 31st March 1889, as per form No. 66 ..				..	6,482 2 8		..	

DISTRICTWAR ABSTRACT OF FORM No. 71 showing Sales of Timber and other Produce both in the Depôt and the Forest during the year 1888-89.

District.	Timbers.						Firewood and charcoal.	Bamboos.	Sandalwood.	Minor produce.	Remarks.
	Teak.	Black or rosewood.	Vengai.	Other timbers.	Redwood roots.	Total timber.					
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	NO.	C. FT.	MDS.	
Chingleput	..	..	..	6	..	6	52,384	..	..	..	*a* Estimate of 14 trees.
North Arcot	..	..	..	*a* 140	Tons 300= c. ft. 15,000	15,140	47,133	*e* 1,575	..	..	*b* Do. of 45 ,,
South Arcot	...	..	364	2,831	..	3,195	42,617	2	*e* 10	*f* 150	*c* Includes 2,400 cubic feet, estimate of 12 ferry boats.
Salem	13	..	4	929	..	946	10,529	424	*e* 68	..	*d* Includes No. 2,426, estimate of tons 12, lb. 291.
Trichinopoly	..	..	..	*b* 450	..	450	185,758	243	..	*g* 1,333	*e* Estimate at 53 cubic feet per ton.
Tanjore	..	..	..	..	..	..	160	..	..	..	*f* Includes 106 mds., estimate of No. 29,325.
North Coimbatore	..	..	..	..	..	..	..	..	..	..	*g* Do. 200 ,, ,, of 1,600 meas.
South Coimbatore	26,458	5,746	2,568	1,221	..	35,993	324	..	..	*h* 1,721	*h* Do. 269 ,, ,, of 1,192 meas. and No. 40,435.
Madura	513	..	2,579	186	..	3,281	82,900	..	..	569	*i* Includes 379 mds., estimate of 2,998 meas. and 2½ cotahs.
Tinnevelly	102	..	..	6,010	..	6,112	47,968	*d* 9,148	..	*i* 389	*j* Includes 2 mds., estimate of 825 canes.
North Malabar	60,853	..	52	75	..	60,980	..	..	..	24	
South Malabar	25,466	3,561	33	40,484	..	69,544	..	8,928	..	66	
South Canara	..	21	67	*c* 9,801	..	9,889	11,764	..	..	*j* 27,358	
Total ..	113,408	9,328	5,667	62,133	15,000	205,536	481,537	18,745	1,653	31,610	

Annual Form No. 72-A.

Forest Department, Madras, Southern Circle.

Timber and other Produce cut, collected and removed from the forests by consumers or purchasers, including pasture, during the year 1888-89.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Chingleput ..	Classified timber	C. ft. 66,821	6,719	6,719	II (*a*).
	Firewood	Tons 5,639	11,779	11,779	II (*b*).
	Bamboos	Tons 151	390	390	II (*c*).
	Grazing fees	..	2,695	2,695	II (*d*).
	Leaves for manure	Tons 1,324	827	827	
	Stones and earth	,, 747	104	104	
	Rent on fruit trees	..	388	388	
	Do. on palmyra produce ..	..	85	85	
	Other minor produce	..	72	72	
	Cassia fistula bark	,, 7	51	51	
	Palmyra leaves	..	66	66	
	Avaram bark	..	721	721	
	Total ..	Tons 2,078	2,314	2,314	II (*e*).
	Total of district ..	..	23,897	23,897	
North Arcot ..	Classified timber	C. ft. 192,104	19,799	19,799	II(*a*)
	Firewood	Tons 25,931	40,390	40,390	
	Railway fuel	,, 11,315			
	Charcoal	,, 292	1,457	1,457	
	Addas per Examiner's Books.	..	77	..	
	Total ..	Tons 37,538	41,924	41,847	II (*b*).
	Bamboos	Tons 6,749	19,441	19,441	II (*c*).
	Grazing and fodder grass ..	..	3,318	3,318	II (*d*)
	Other minor produce	..	17,633	17,633	II (*e*)
	Total of district ..	..	1,02,115	1,02,038	
South Arcot ..	Classified timber	C. ft. 57,619	6,921	6,921	
	Casuarina do.	,, 34	10	10	
	Do. poles.	,, (*a*) 28	9	9	(*a*) Estimate of 14 poles.
	Palmyra trees	,, (*b*) 6,650	675	675	(*b*) Do. of 665 trees.
	Miscellaneous trees	,, (*c*) 1,455	286	286	(*c*) Do. of 97 do.
	Total ..	C. ft. 65,786	7,901	7,901	II (*a*).
	Firewood	Tons 14,463	20,066	20,066	
	Do. transfers from land revenue miscellaneous to forests.	,, 547	388	388	
	Charcoal	,, 141	705	705	
	Miscellaneous trees	,, * 43	82	82	* Estimate of 115 trees.
	Casuarina sticks, &c. ..	..	3	3	
	Total ..	Tons 15,194	21,244	21,244	II (*b*).
	Bamboos, split	Tons 73	366	366	
	Do. common	,, 243	609	609	
	Do. do.	No. 458	41	41	
	Do. lease	Tons * 448	1,120	1,120	* Estimate, common bamboos.
	Total ..	Tons 764 No. 458	2,136	2,136	II (*c*).
	Fodder grass	..	35	1,930	
	Grazing fees	..	1,895		
	Total ..	..	1,930	1,930	II (*d*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
South Arcot—*cont.*	Barks	Tons 62	7,851	7,851	
	Leaves	,, 3,433	2,206	2,206	
	Seeds	..	74	74	
	Fruits	..	576	576	
	Stones	,, 696	135	135	
	Tree rents	..	5,088	5,088	
	Other minor produce	,, 392	3,070	3,070	
	Transfers from land revenue miscellaneous to forest.	..	4,670	4,670	
	Total ..	Tons 4,583	23,670	23,670	II (*e*).
	Total of district ..	..	56,881	56,881	
Salem	Classified timber	C. ft. 247,404	21,305	21,305	II (*a*).
	Firewood	Tons 19,126½	13,784	13,784	In cubic feet, 765,060.
	Charcoal	,, 2,244	10,393	10,393	In maunds, 201,076.
	Total ..	Tons 21,370½	24,177	24,177	II (*b*).
	Bamboos, common	Tons 8,177	29,076	29,076	II (*c*).
	Do. split	,, 1,682			
	Grazing and fodder grass ..	..	5,272	5,257	II (*d*).
	Fruit trees	..	15,100	15,100	
	Palmyras	..	16,258	16,258	
	Minor produce contract ..	..	31,070	30,443	
	Tope produce	..	1,320	1,127	
	Leaves	..	87	87	
	Stones	..	3	3	
	Total ..	..	63,838	63,018	II (*e*).
	Total of district ..	..	1,43,668	1,42,833	
Trichinopoly ..	Classified timber	C. ft. *101,983	7,290	7,290	II (*a*). * Includes 819 cubic feet, being estimate of 273 casuarina trees.
	Firewood	Tons 10,556	6,660	6,660	
	Charcoal	,, 56	279	279	
	Deduct as per Examiner's Books.	..	— 51	..	
	Total ..	Tons 10,612	6,888	6,939	II (*b*).
	Bamboos	(Tons 1,708 and No. 2,662	4,695	4,695	II (*c*).
	Grass	..	6,001	5,893	
	Deduct as per Examiner's Books.	..	— 199	..	
	Total ..	..	5,802	5,893	II (*d*).
	Barks	Tons 3	2,737	1,865	
	Leaves for manure	,, 2,988	1,921	1,921	
	Other minor produce	..	4,433	3,662	
	Stones	..	48	48	
	Deducted by the Examiner ..	..	— 516	— 11	
	Total ..	Tons 2,991	8,623	7,485	II (*e*).
	Total of district ..	..	33,298	32,302	
Tanjore	Classified timber	C. ft. 4,613	361	361	II (*a*).
	Firewood	Tons 2,950	4,452	4,452	
	Charcoal	,, 39	188	188	
	Total ..	Tons 2,989	4,640	4,640	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Tanjore—*cont.*	Bamboos	Tons 97	234	234	II (*c*).
	Grazing fees	..	751	751	II (*d*).
	Minor produce	..	1,881	1,881	
	Leaves for manure	Tons 2,875	3,478	3,478	
	Deduct as per Examiner's Books.	..	— 8	..	
	Total ..	Tons 2,875	5,351	5,359	II (*e*).
	Total of district ..	..	11,337	11,345	
North Coimbatore.	Timber	C. ft. 43,736	6,270	6,270	II (*a*).
	Firewood	Tons 9,228	6,559	6,559	
	Charcoal	28	140	140	
	Total ..	Tons 9,256	6,699	6,699	II (*b*).
	Bamboos, plain	Tons 3,753	9,384	9,384	
	Do. split	376	1,880	1,880	
	Total ..	4,129	11,264	11,264	II (*c*).
	Grazing and fodder grass	..	23,336	23,336	II (*d*).
	Minor produce	..	8,375	8,375	
	Rent of topes, &c.	..	20,503	18,819	
	Total ..	..	28,878	27,194	II (*e*).
	Total of district ..	..	76,447	74,763	
South Coimbatore.	Timber, Miscellaneous	C. ft. 35,890	3,103	3,103	(*a*) Estimate of No. 1357.
	Posts, poles and ploughs	(*a*) 1,336	475	475	(*b*) Do. 1024 cart loads.
	Spokes and felloes	(*b*) 20,480	2,229	2,229	
	Transfer from land revenue by Accountant-General.	..	223	223	
	Total ..	57,706	6,030	6,030	II (*a*).
	Firewood	Tons 12,826	8,425	8,425	
	Charcoal	154	775	775	
	Billet-wood, faggot-wood, &c.	3,751	2,168	2,168	
	Poramboke trees	..	2,529	2,529	
	Total ..	16,731	13,897	13,897	II (*b*).
	Bamboos	No. 998,118	6,729	6,729	
	Do. contract	Tons 375	716	716	
	Total ..	998,493	7,445	7,445	II (*c*).
	Grazing fees	..	6,073	6,073	
	Grass	..	268	268	
	Add as per Examiner's Books.	..	11	..	
	Total ..	..	6,352	6,341	II (*d*).
	Minor produce	..	6,217	6,217	II (*e*).
	Total of district ..	..	39,941	39,930	
Madura	Vengai	C. ft. 1,241	451	451	
	Junglewood	405,820	14,944	14,944	
	Miscellaneous timbers	1,176	204	204	
	Amount paid by Karuvela tree contractors.	..	6,343	6,343	
	Add as per Examiner's Books.	..	248	..	
	Total ..	408,237	22,190	21,942	II (*a*).
	Firewood	Tons 7,782	6,199	6,199	
	Charcoal	,, 226	1,135	1,135	
	Total ..	Tons 8,008	7,334	7,334	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Madura—*cont.*	Bamboos	Tons 1,035	3,225	3,225	II (*c*).
	Grazing fees	..	2,462	2,462	II (*d*).
	Stones	Tons 1,947	417	417	
	Manure leaves	,, 298	191	191	
	Barks	..	1	1	
	Tree tax	..	1,832	1,832	
	Cardamom assessment	..	708	708	
	Minor produce contract ..	..	30,216	30,216	
	Other minor produce	,, 274	316	315	
	Fruits	..	242	242	
	Amount of loss recovered from Permit Issuing officer.	..	124	124	
	Particulars not known ..	..	1	1	
	Deduct as per Examiner's Books.	..	— 1,282	..	
	Total ..	Tons 2,519	32,765	34,047	II (*e*).
	Total of the district ..	..	67,976	69,010	
Tinnevelly ..	Classified trees	C. ft. 36,672	3,440	3,415	
	Teak	,, 810	394	394	
	Miscellaneous timber	,, 2,442	1,179	1,179	
	Vengai	,, 46	12	12	
	Added by the Examiner ..	..	9	10	
	Total ..	C. ft. 39,970	5,034	5,010	II (*a*).
	Firewood	Tons 11,518	27,592	26,617	
	Charcoal	,, 524	2,736	2,736	
	Outstandings of previous year realized.	..	..	2	
	Total ..	Tons 12,042	30,328	29,355	II (*b*).
	Bamboos, &c.	Tons 117	511	510	II (*c*).
	Grazing fees and fodder grass .	..	312	312	II (*d*).
	Minor produce	..	18,176	17,678	
	Outstandings of previous year realized.	..	..	421	
	Total ..	..	18,176	18,099	II (*e*).
	Total of the district ..	..	54,361	53,286	
North Malabar ..	Teak pieces	C. ft. 3,488	494	494	
	Miscellaneous trees	,, * 1,440	870	870	* Estimate of 96 trees.
	Valuation of standing trees on lands applied for by planters.	..	750	750	
	Advance for timber	..	1,557	1,557	
	Total ..	C. ft. 4,928	3,671	3,671	II (*a*).
	Bamboos	No. 19,611	296	296	II (*c*).
	Amount of minor produce contract.	..	3,919	2,528	II (*e*).
	Total of the district ..	..	7,886	6,495	
South Malabar ..	Teak	C. ft. 46	39	39	
	Miscellaneous timber	(*a*) C. ft. 15,480	2,325	2,371	(*a*) Includes 1,900 cubic feet being estimate of 190 trees.
	Teak poles and scantlings ..	(*b*) ,, 572	547	547	(*b*) Estimate of 5,725 poles, scantlings, &c.
	Total ..	,, 16,098	2,911	2,957	II (*a*).
	Firewood	Tons 5,498	2,992	2,992	
	Charcoal	,, 69	172	172	
	Total ..	Tons 5,567	3,164	3,164	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
South Malabar—*cont.*	Bamboos	No. 99,760	898	928	
	Deduct as per Examiner's Books.	..	— 216	..	
	Total ..	..	682	928	II (*c*).
	Grass	..	101	101	II (*d*).
	Minor produce	..	32	32	II (*e*).
	Total of the district ..	..	6,890	7,182	
South Canara ..	Reserved, classified and other trees.	C. ft. 445	240	240	
	Do. do. ..	,, * 9,840	3,139	3,139	* Estimate of 656 trees.
	Total ..	C. ft. 10,285	3,379	3,379	II (*a*).
	Firewood, &c.	Tons 6,867	5,151	5,151	
	Charcoal	,, 46	138	138	
	Total ..	Tons 6,913	5,289	5,289	II (*b*).
	Bamboos	No. 58,006	919	919	II (*c*).
	Leaves	Tons 16	8	8	
	Thatching grass, &c.	..	7	7	
	Rent of cardamom forest ..	..	866	866	
	Total ..	16	881	881	II (*e*).
	Total of the district ..	..	10,468	10,468	
	Total of all districts in the Southern Circle.	..	6,35,165	6,30,430	

Abstract of Form No. 72-A.

District.	Timber.	Firewood.	Railway fuel.	Charcoal.	Total in cub. ft.	Bamboos. Tons.	Bamboos. Number.	Minor produce.
	C. FT.	TONS.	TONS.	TONS.		TONS.	NO.	TONS.
Chinglepût ..	66,821	5,639	..	..	225,560	151	..	2,078
North Arcot ..	192,104	25,931	11,315	292	1,923,460	6,749	..	..
South Arcot ..	65,786	15,053	..	141	658,520	764	458	4,583
Salem	247,404	19,126½	..	2,244	1,662,660	9,859	..	..
Trichinopoly ..	101,983	10,556	..	56	444,640	1,708	2,662	2,991
Tanjore	4,613	2,950	..	39	133,600	97	..	2,875
North Coimbatore.	43,736	9,228	..	28	380,320	4,129	..	..
South do. ..	57,706	16,577	..	154	724,680	375	998,118	..
Madura	408,237	7,782	..	226	401,680	1,035	..	2,519
Tinnevelly ..	39,370	11,518	..	524	670,320	117	..	..
North Malabar ..	4,928	..	..	..	..	..	19,611	..
South do. ..	16,098	5,498	..	69	247,520	..	99,760	..
South Canara ..	10,285	6,867	..	46	293,080	..	58,006	16
Total Tons..	..	136,725½	11,315	$\frac{3,819\times10}{\text{Firewood.}} = 38,190$	..	24,984		15,062
Total Equivalent in cubic feet ..	1,259,671	5,469,020	769,420	1,527,600	7,766,040	No. =4,996,800	1,178,615	MDS. =1,349,555
						No. = 6,175,415		

	Sales.	Actually realized.
	RS.	RS.
II (*a*) Timber	1,12,860	1,12,634
II (*b*) Firewood and Charcoal	1,77,363	1,76,364
II (*c*) Bamboos	80,314	80,559
II (*d*) Grazing and fodder grass	52,331	52,396
II (*e*) Grass and other minor produce	2,12,297	2,08,477
Total ..	6,35,165	6,30,430
Add outstandings due from previous year as per form No. 66	7,704	
Total ..	6,42,869	
Deduct amount realized during the year	6,30,430	
Balance outstanding on 31st March 1889 as per form No. 66	12,439	

ANNUAL FORM No. 72-B.

Forest Department, Madras, Southern Circle.

Timber and other Produce confiscated and sold during the year 1888-89.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			RS.	RS.	
Chingleput ..	Junglewood	C. ft. 560 (*a*)	22	22	(*a*) Estimate of 14 tons.
		TONS.			
	Firewood	,, 5	11	11	
	Charcoal	,, 2	8	8	
	Minor produce	..	1	1	
	Total ..	..	42	42	III.
North Arcot ..	Junglewood	C. ft. 280 (*b*)	195	195	(*b*) Estimate of 13 cart loads, 2 head loads and 9 posts.
		TONS.			
	Firewood	,, 8 (*c*)	27	27	(*c*) Includes estimate of 6 cart loads, 24 head loads, and 5 ass loads.
	Charcoal	,, 1 (*d*)	4	4	(*d*) Estimate of 38 head loads.
	Bamboos	,, 5 (*e*)	80	80	(*e*) Estimate of 9½ cart loads, 2 head loads, and No. 8.
	Minor produce	,, 9 (*f*)	17	17	(*f*) Estimate of 14 cart loads, 22 head loads, No. 138, and 1 bundle.
	Total ..	..	323	323	III.
South Arcot ..	Timber	C. ft. 436 (*g*)	90	90	(*g*) Includes 312 C. ft., estimate of 78 poles.
		TONS.			
	Firewood	,, 87 (*h*)	133	133	(*h*) Includes 1 tree and 2 planks.
	Charcoal	..	1	1	
	Bamboos	..	1	1	
	Sandalwood billets ..	..	4	4	
	Minor produce	..	36	36	
	Total ..	..	265	265	III.
Salem	Timber	C. ft. 1,492	336	336	
		TONS.			
	Firewood	,, 49 (*i*)	131	131	(*i*) Includes 1,952 C. ft.
	Charcoal	,, 5	62	62	
	Bamboos	,, 29	224	224	
	Sandalwood	..	19	19	
	Minor produce	,, 7	11	11	
	Total ..	..	783	783	III.
Trichinopoly ..	Timber	C. ft. 174 (*j*)	13	13	(*j*) Includes 10 C. ft., being estimate of one tree.
		TONS.			
	Firewood	,, 23	25	25	
	Bamboos	,, 4	57	57	
	Minor produce	..	60	60	
	Total ..	..	155	155	III.
Tanjore	Timber	C. ft. 11	2	2	
		TONS.			
	Sea drift and waifwood ..	,, 230 (*k*)	11	11	(*k*) Estimate of 23 trees.
	Firewood	,, 2	8	8	
	Minor produce	,, 2	3	3	
	Total ..	..	24	24	III.
North Coimbatore.	Timber	C. ft. 113 (*l*)	36	36	(*l*) Includes estimate of 2 logs of blackwood and one miscellaneous timber.
		TONS.			
	Firewood	,, 1	2	2	
	Charcoal	..	1	1	
	Bamboos	,, 1	11	11	
	Minor produce	,, 1	14	14	
	Total ..	..	64	64	III.

Timber and other Produce confiscated and sold during the year 1888-89—*cont.*

District.	Produce removed.		Amount of revenue.	Amount actually realized during the year.	Remarks.
	Description.	Number or quantity.			
			Rs.	Rs.	
South Coimbatore.	Teak scantlings	C. ft. 19 (*m*)	3	3	(*m*) Estimate of 9 scantlings.
	Rosewood	,, 9	7	7	
	Miscellaneous timber ..	,, 150	36	36	
		TONS.			
	Firewood	,, 2	45	45	
	Bamboos	..	2	2	
	Minor produce	..	10	10	
	Total ..	..	103	103	III.
Madura	Teak	C. ft. 213	185	185	
	Vengai	,, 580	623	623	
	Junglewood	,, 1,219	109	109	
	Miscellaneous wood ..	,, 513	49	49	
		TONS.			
	Firewood	,, 9	23	23	
	Bamboos	,, 1	5	5	
	Minor produce	,, 5	28	28	
	Total ..	..	1,022	1,022	III.
Tinnevelly ..	Teak	C. ft. 102	24	24	
	Junglewood	,, 231	79	79	
	Miscellaneous wood ..	,, 10 (*n*)	1	1	(*n*) Estimate of one tree.
		TONS.			
	Firewood	,, 68	171	171	
	Charcoal	,, 1	8	8	
	Minor produce	,, 20	25	25	
	Total ..	..	308	308	III.
North Malabar ..		*Nil.*			
South Malabar ..	Teak sapling and firewood.	..	1	1	
	Minor produce (Elephant tusk, &c.)	..	280	280	
	Total ..	..	281	281	III.
South Canara ..	Teak trees	C. ft. 45 (*o*)	363	363	(*o*) Estimate of 3 trees.
	Rosewood	,, 231 (*p*)			(*p*) Estimate of 12 trees, 3 logs and 6 pieces.
	Vengai	,, 30 (*q*)			(*q*) Estimate of 2 trees.
	Miscellaneous timber ..	,, 500 (*r*)			(*r*) Estimate of 49 trees and 73 pieces.
	Firewood	..			
	Minor produce	..			
	Total ..	..	366	363	III.
	Grand Total ..	..	3,733	3,733	III.

Abstract of Form No. 72-B.

District.	Timber.	Firewood.		Bamboos.	Minor produce.
		Firewood.	Charcoal.		
	C. ft.	tons.	tons.	tons.	tons.
Chingleput	560	5	2	..	..
North Arcot	280	8	1	5	9
South Arcot	436	87	..	..	..
Salem	1,492	49	5	29	7
Trichinopoly	174	23	..	4	..
Tanjore	241	2	..	..	2
North Coimbatore	113	1	..	1	1
South Coimbatore	171	2	..	..	..
Madura	2,525	9	..	1	5
Tinnevelly	343	68	1	..	29
North Malabar	..	..	..	..	..
South Malabar	..	..	..	..	..
South Canara	806	..	..	..	..
Total	..	254 = C. ft. 10,160	9 = Firewood, C. ft. 3,600	40 =	44 =
Grand Total	7,141	C. ft. 13,760		No. 8,000	Mds. 3,942

ANNUAL FORM No. 73-A.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1888-89.

District.	Description of timber or produce.	On hand at commencement of the year: Number.	Cubic feet.	Value.	On hand at end of the year. Number.	Cubic feet.	Value.	Difference in value. In favor of the year.	Against the year.	Remarks.
				Rs.			Rs.	Rs.	Rs.	
Chingleput					*Nil.*					
North Arcot ..	Redwood roots and stumps	Tons. 326	lb. ..	4,890	Tons. 385	lb. ..	5,775	885	..	
	Babul, &c., wood	166	319¼	332	11	100¼	22	..	310	
	Sandalwood and roots	32	506	2,578	16	779	1,308	..	1,270	
	Total ..	524	825¼	7,800	412	879¼	7,105	..	695	
South Arcot ..	Vengai	No. ..	C. ft. ..	..	No. 4	C. ft. 15 0	15	15	..	
	Miscellaneous timber	6	24 11	6	98	67 1	34	28	..	
	Firewood	Tons. 5	lb. 1,022	30	Tons. 2	lbs. 8	10	..	20	
	Sandalwood roots and billets	1	2,215	500	1	1,582	528	28	..	
	Wax	..	4	1	..	..	..	..	1	
	Total ..	6 C. ft. 24 11	Tons. lb. 7 1,001	537	102 C. ft. 82 1	Tons. lb. 3 1,590	587	50	..	
Salem ..	Teak	No. 2	C. ft. 4 4	4	No. ..	C. ft. ..	..	..	4	
	Vengai	2	3 11	5	..	..	..	..	5	
	Miscellaneous timber	2	3 1	4	9	85	86	81	..	
	Bamboos	..	..	..	1,000	..	15	15	..	
	Sandalwood roots and billets	Tons. 1	lb. 672	522	Tons. 12	lb. 1,302	3,975	3,453	..	
	Total ..	No. 6 Tons lb. 1 672	11 4	535	No. 9 1,000 Tons. lb. 12 1,302	85	4,075	3,540	..	
Trichinopoly ..	Firewood	Tons. 80	..	240	Tons. 40	..	145	..	95	

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1888-89—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.		*Nil.*	Rs.	Rs.	Rs.	
North Coimbatore	Sandalwood	Tons.	lb. 1,681	234	Tons.	lb. 1,823	190		44	
South Coimbatore	Teak logs and rafters	No. 1,060	C. ft. 32,075	22,607	No. 540	C. ft. 18,592	13,759		8,848	
	Miscellaneous timber				4	113	56	56		
	Minor produce			5					5	
	Total	1,060	32,075	22,612	544	18,705	13,815		8,797	
Madura	Firewood	Tons. 176	lb. 610	550	Tons. 60	lb. 1,711	228		322	
Tinnevelly	Kongu poles	No. 14	C. ft. 18	18	No. 4	C. ft. 21	21	3		
	Bamboo pattais	Tons. 4	lb. 2,025	129					129	
	Minor produce				Tons. 1	lb. 110	902	902		
	Total	No. 14 / Tons. 4	C. ft. 18 / lb. 2,025	147	No. 4 / Tons. 1	C. ft. 21 / lb. 110	923	776		
North Malabar						*Nil.*				
	Selection felling.									
South Malabar	Miscellaneous timber	No. 20	C. ft. 200	125	No. 30	C. ft. 1,234	770	645		

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1888-89—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
	Clearance felling.			Rs.			Rs.	Rs.	Rs.	
South Malabar—*cont.*	Teak saplings, large, small, and classified ..	16,659	15,703	21,000	20,709	17,087	22,000	1,000	..	
	Kariyas	36	..	..	2,031	..	50	50	..	
	Bamboos	..	..	..	5,409	..	400	400	..	
	Minor produce	..	..	..	..	lb. 250	100	100	..	
	Total ..	16,679 / 36	C. ft. 15,903	21,125	20,739 No. / 7,440 and lb. / 250	1,8321	23,320	2,195	..	
South Canara ..	Rosewood logs	..	..	..	2	72·9	80	80	..	
	Miscellaneous timber	..	..	..	91	2,161·4	1,825	1,825	..	
	Total ..	..	..	..	93	2,234·3	1,905	1,905	..	
	Grand Total.									
	Teak	No. 17,721	C. ft. 47,782	43,611	No. 21,249	C. ft. 35,679	35,759	..	7,852	
	Vengai	2	4	5	4	15	15	10	..	
	Rosewood	..	..	..	2	72·9	80	80	..	
	Miscellaneous timber	42	246	153	236	3,681·5	2,791	2,638	..	
	Redwood roots	Tons. 326	lb. ..	4,890	Tons. (a) 385	lb. ..	5,775	885	..	C. ft. (a)=19,250, Estimate.
	Firewood	429	..	1,152	(b) 113 / No. 2,031	1,819 / ..	452	..	700	(b)=24,863 Do.
	Bamboos	5	..	129	,, 6,409	..	415	286	..	
	Sandalwood roots and billets	36	..	3,834	(c) 31	(c) 1,006	6,001	2,167	..	(c)= 1,573 Do.
	Minor produce	..	4	6	(d) 1	(d) 360	1,002	996	..	(d)=104 Mds. Do.
	Total ..	..	..	53,780	..	..	52,290	..	1,490	

ANNUAL FORM No. 73-B.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Live-stock, Stores, Tools and Plant for the year 1888-89.

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.	
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.
			Rs.		Rs.	Rs.	Rs.
Chingleput ..	Surveying instruments	17	325	19	329	4	..
	Tools	143	383	197	478	95	..
	Furniture	26	293	26	293	..	..
	Buildings	2	240	3	425	185	..
	Total ..	188	1,241	245	1,525	284	..
North Arcot ..	Surveying instruments	34	809	34	832	23	..
	Machinery	2	53	2	(a) 9,893	9,840	..
	Tools	678 Cwt. 32-94	1,154	789 Cwt. 32-94	1,222	68	..
	Furniture	85	507	85	483	..	24
	Buildings	40	3,711	40	3,516	..	195
	Total ..	839 Cwt. 32-94	6,234	950 Cwt. 32-94	15,946	9,712	..
South Arcot ..	Surveying instruments	17	605	67	1,274	669	..
	Machinery	7	271	7	271	..	..
	Tools	514	293	524	302	9	..
	Furniture	158	988	158	988	..	..
	Miscellaneous	421	1,141	432	1,386	245	..
	Buildings	9	2,865	10	3,865	1,000	..
	Live-stock	2	20	..	..	..	20
	Total ..	1,128	6,183	1,198	8,086	1,903	..
Salem	Surveying and other instruments	47	966	46	558	..	(b) 408
	Tools	197	820	209	884	64	..
	Furniture	16	115	16	115	..	..
	Miscellaneous	7	28	7	28	..	..
	Buildings	3	75	3	75	..	..
	Total ..	270	2,004	281	1,660	..	344
Trichinopoly ..	Surveying and other instruments	6	325	6	325	..	..
	Tools	724	809	1,141	1,222	413	..
	Furniture	45	352	61	480	128	..
	Buildings	13	1,615	9	1,555	..	60
	Miscellaneous	133	549	222	609	60	..
	Live-stock	20	537	12	537	..	..
	Total ..	941	4,187	1,451	4,728	541	..
Tanjore ..	Surveying and other instruments	19	..	20	..	..	..
	Tools	213	16	155	16	..	..
	Furniture	20	..	20	..	..	..
	Miscellaneous	21	17	21	17	..	..
	Buildings	4	323	4	323	..	..
	Total ..	277	356	220	356	..	..
North Coimbatore	Surveying and other instruments	14	55	14	55	..	..
	Tools	997	991	1,012	1,256	265	..
	Furniture	183	190	183	190	..	..
	Buildings	35	3,645	33	2,750	..	895
	Total ..	1,229	4,881	1,242	4,251	..	630

(a) Includes Rs. 9,842, cost of Tramway materials.
(b) Value of one Theodolite sent to South Coimbatore.

Abstract showing the value of Live-stock, Stores, Tools and Plant, &c.—*cont.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.	
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.
			Rs.		Rs.	Rs.	Rs.
South Coimbatore	Surveying and other instruments	39	59	49	59	..	..
	Machinery	..	..	..	* 42,447	42,447	..
	Tools	381	..	528	..	..	..
	Furniture	152	24	206	49	25	..
	Miscellaneous	7	..	37	..	..	..
	Buildings	29	157	36	157	..	..
	Live-stock	..	..	4	7,700	7,700	..
	Total	608	240	860	50,412	50,172	..
Madura	Surveying and other instruments	22	491	23	491	..	..
	Machinery	1	18	..	..	..	18
	Tools	103	387	146	387	..	..
	Furniture	81	183	112	432	249	..
	Buildings	66	3,772	82	4,982	1,210	..
	Live-stock	6	120	6	120	..	..
	Total	279	4,971	369	6,412	1,441	..
Tinnevelly	Surveying and other instruments	27	548	33	755	207	..
	Tools	262	436	307	511	75	..
	Furniture	269	1,405	277	1,469	64	..
	Buildings	67	5,372	74	7,682	2,310	..
	Total	625	7,761	691	10,417	2,656	..
North Malabar	Surveying and other instruments	33	407	33	407	..	..
	Tools	13	194	35	194	..	..
	Furniture	2	1	2	1	..	..
	Miscellaneous	27	220	27	220	..	..
	Live-stock	11	14,192	3	4,500	..	9,692
	Buildings	8	1,567	8	1,567	..	..
	Total	94	16,581	108	6,889	..	9,692
South Malabar	Surveying and other instruments	13	304	11	198	..	106
	Machinery	18	90	19	99	9	..
	Tools	641	335	814	483	148	..
	Furniture	38	149	38	149	..	..
	Buildings	17	5,128	19	13,407	8,279	..
	Miscellaneous	164	596	168	747	151	..
	Building materials	10,000	126	..	..	..	126
	Live-stock	12	4,002	8	6,702	2,700	..
	Total	10,903	10,730	1,077	21,785	11,055	..
South Canara	Surveying and other instruments.	43	..	40	..	..	..
	Tools	369	..	419	..	..	..
	Machinery	1	..	1	..	..	..
	Furniture	90	..	98	..	..	..
	Buildings	15	170	17	170	..	..
	Miscellaneous	256	..	237	..	..	..
	Total	774	170	812	170	..	..
Grand Total	Surveying and other instruments	331	4,894	395	5,283	389	..
	Tools	5,235 Cwt. 32-94	5,818	6,276 Cwt. 32-94	6,955	1,137	..
	Machinery	29	432	29	52,710	52,278	..
	Furniture	1,165	4,207	1,282	4,649	442	..
	Buildings	308	28,664	338	40,474	11,810	..
	Building materials	10,000	126	..	..	..	126
	Live-stock	51	18,871	33	19,559	688	..
	Miscellaneous	1,036	2,551	1,151	3,007	456	..
	Total	18,155 Cwt. 32-94	65,563	9,504 Cwt. 32-94	1,32,637	67,074	..

* Cost of Tramway materials.

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of Elephants in the Southern Circle during the year 1888-89.

PART I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.				Remarks.
	Elephants.			Rs.	A.	P.	
South Coimbatore.	....	*Nil.*					
North Malabar ..	1. Phyllis	Purchased in 1878.	Per head ..	27	0	0	
	2. Lakshmi	Transferred from Anaimalai in May 1881.					
South Malabar ..	1. Vixen	Transferred from Wynaad in 1882.	Do. ..	27	0	0	
	2. Peyru	Transferred from Wynaad in 1882.					
	3. Sampson	Purchased from Mr. Morgan in 1884.					
	4. Eva	Purchased from Mr. Morgan in 1884.					
	5. Juno	Captured in February 1886.					
	6. Jupiter	Captured in July 1887 ..					
	7. Theebaw	Captured in January 1886.					
	8. Mars	Captured in July 1887 ..					
	Other Cattle.						
South Arcot ..	....	*Nil.*					
Trichinopoly ..	Eleven bullocks ..	April 1885 and 1886 ..	Per head ..	6	0	0	
Madura	1. Two Kodaikánal depôt bulls.	Purchased in 1885 ..	Per head ..	10	0	0	
	2. Two Navinipatti garden bulls.	Purchased in 1886 ..					
	3. Two ponies for Kodaikánal depôt.	Purchased in 1887 ..					
North Malabar ..	....	*Nil.*					

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.				Remarks.
	Elephants.			Rs.	A.	P.	
South Coimbatore.	1. Saukara	Purchased in January 1878.	Per head ..	32	0	0	1. Transferred from Anaimalais to North Malabar in May 1881, and thence to South Coimbatore in June 1888.
	2. Ohloe						2. Transferred from North Malabar in June 1888.
	3. Parvathi ..	Purchased in 1888 ..					3. Transferred from South Malabar in August 1888.
	4. Karthainee ..						4. Do. Do.
North Malabar.	1. Not named ..	Captured in the Government Pit at Trans Beni in April 1888.	Per head ..	9	0	0	
	2. Nur Jehan ..						
	3. Leila						
South Malabar.	1. Rani	Captured in June 1885 in North Malabar.	Per head ..	27	0	0	1. Transferred from North Malabar in September 1888.
	2. Maharaja ..	Captured in 1886-87 in North Malabar.					2. Do. do.
	3. Jumboo	Captured in 1886-87 in North Malabar.					3. Do. do.
	4. Gordon	Captured 11th February, 1889.					
	Other Cattle.						
South Arcot ..	....	*Nil.*					
Trichinopoly ..	One Bullock ..	March 1889	Per head ..	6	0	0	
Madura ..	....	*Nil.*					
North Malabar.	....	*Nil.*					

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	Rs. A. P.	How disposed of.
	Elephants.				
South Coimbatore..	....	*Nil.*			
North Malabar ..	1. Not named	....	..	..	Died in May 1888.
	2. Nur Jehan	....	..	..	Do. in March 1889.
	3. Chloe	Transferred to South Coimbatore in June 1888.			
	4. Sankara				
	5. Mahraja	Transferred to South Malabar in September 1888.	Per head	27 0 0	
	6. Jumboo				
	7. Rani				
South Malabar ..	1. Parvathi	Purchased on account of Coimbatore district in May 1888.			1 and 2 were sent to South Coimbatore in July 1888.
	2. Karthainee				
	3. Lucy	Captured in February 1886.	Do. ..	27 0 0	Died in November 1888.
	4. W. Juno	Purchased in December 1886.			Do. in October 1888.
	Other Cattle.				
South Arcot ..	1. Vellian buffalo ..	Purchased in November 1885.	Do. ..	1 0 0	Sold for Rs. 34.
	2. Karuppan do. ..				
	One bullock	April 1886.	Do. ..	7 0 0	One died in September 1888.
Madura	....	*Nil.*			
North Malabar ..	Four Coorg buffaloes ..	Purchased in 1884 and 1885.	Do. ..	2 0 0	Sold for Rs. 130 in September 1888.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE NORTHERN CIRCLE, MADRAS,

FOR THE YEAR 1888-89.

By J. S. GAMBLE, Esq., Conservator of Forests.

CHAPTER I.

Introductory Remarks.

As in previous years, Forest Settlement has been the chief work of the year 1888-89. But the staff had also other works of importance to attend to in demarcation, the making of roads, the building of houses for the staff, the protection of the forests from fire and the improvement of the revenue collections.

2. From 1st April 1888 to 6th January 1889 the Circle was under the charge of Mr. A. W. Peet, Acting Conservator. From 7th January to the end of the year the permanent Conservator, Mr. J. S. Gamble, held charge. Mr. Peet visited the districts of Cuddapah, Kurnool, Bellary, Anantapur and Nílgiris and was seventy-six days on tour away from Madras or Ootacamund. Mr. Gamble, after assuming charge, visited Nellore, Cuddapah, Kurnool, Bellary, Anantapur and Nílgiris and conferred with the Collectors and District Forest-officers as to works in progress. He was thirty-five days on tour. If only the Circles could be revised, so as to make three instead of two, as proposed recently by the Madras Government, it would be a very great advantage, for the Conservator could then make his inspections in more detail than is possible under present circumstances.

3. The following list shows the time spent in camp by the various officers in charge of Districts :—

District.	Officer in charge.	Time in charge.	Days in camp.
Ganjam	Mr. A. W. Lushington, Assistant Conservator of Forests	365	214
Vizagapatam ..	Charge held { Northern Division by Assistant Conservator, Ganjam.	..	..
	{ Southern do. by do. Godávari.	..	..
Godávari	Mr. J. S. Battie, Assistant Conservator of Forests	365	182
Kistna	,, G. Homfray, do. do.	365	197
Nellore	,, J. H. B. Brougham, Deputy Conservator of Forests	365	114
Cuddapah	,, F. A. Lodge, Assistant Conservator of Forests	325	194
	Collector	7	..
	Mr. T. G. A. Gaudoin, Forest Ranger	33	25
Kurnool	,, E. D. M. Hooper, Deputy Conservator of Forests	49	7
	,, P. M. Lushington, Assistant Conservator of Forests	316	149
Bellary	,, H. H. Ward, Forest Ranger	94	27
	,, W. Carroll, Sub-Assistant Conservator of Forests..	271	112
Anantapur	T. Somasundra Mudaliyar, Sub-Assistant Conservator of Forests ..	365	339
Nílgiris	Mr. P. M. Lushington, Assistant Conservator of Forests	46	..
	T. M. Nallasawmy Naidu, Sub-Assistant Conservator of Forests ..	319	200

All officers spent good time in camp, except Mr. Brougham in Nellore and the officers in Bellary. But in both cases those officers had to spend much time at head-quarters in attendance on the Courts of Forest Settlement. The Collector of Nellore (Mr. C. D. Macleane) says that "what with (*a*) absence of higher subordinates, (*b*) settlement being in full play with the occurrence of some difficult cases, (*c*) very numerous questions arising in lands outside reserved forests, the year was one of hard work for the District Forest-officer." The Conservator can only add that the same remarks may be made applicable to almost all districts; and most so to Cuddapah, Kurnool and Anantapur.

CHAPTER II.

Area and Boundaries.

4. Form 59-A gives the area of reserved forests. It is strange to record that there is but an increase of 6 square miles, for though there were additions of $9\frac{1}{2}$ square miles in Ganjam, 14 in Vizagapatam, 11 in Godávari, 6 in Kistna and 3 in Nellore, yet these $43\frac{1}{2}$ square miles were counterbalanced by the necessity of striking off 35 square miles in Nellore and rectifying mistakes leading to a reduction of $2\frac{1}{2}$ square miles in Nílgiris. How the area of the Dugarázpatnam plantation reserve came to be entered as 37 (!) square miles last year is not clear. To the 631 square miles of reserved forests under Act V of 1882 at the close of the year, must be added 23 square miles of reserved forest set apart by the Collector of Vizagapatam in the Pálkonda hills, which are Agency tracts to which that Act has not yet been extended. It is also proposed to reserve 130 square miles in Golgonda Agency.

5. As will be explained further on, the area—631 square miles—does not take into consideration the large area of 3,199 square miles which have been finally settled but not yet notified officially.

6. Form 59-B need no longer be submitted as all the areas described in it have, as pointed out recently by Government, either been transferred to 59-A, or are proposed for reservation and as such are at present reserved lands in form 59-C.

7. Form 59-C has been corrected as regards the contents of several areas. Several areas have been transferred to form 59-A and some new additions have been brought on to the list, so that the area of reserved lands was 6,424 square miles on the 31st March 1889. A great many of the areas included in this return have been finally settled and only await notification to be transferred to form 59-A. They are marked S in 59-C and their total, after necessary settlement reductions, is 3,199 square miles, so that with the 631 square miles of 59-A, the area of settled forest was 3,830 square miles altogether at the end of the year.

8. Form 59-D has again had to be corrected in the matter of the area of Mudumalai forest. In 1885-86 the area was corrected to 47,285 acres, but by misprint 40,715 acres, instead of 80,715 acres, was entered in the column 'excluded.' The next year it was noticed that there had been a mistake of 40.000 acres, but apparently it was supposed that the mistake was in the balance instead of in the exclusion, so that the area on the 1st April 1886 was raised to 87,285 acres. This has consequently again to be reduced and instead of 47,285 acres, the more accurate figures of 46,639 acres given in Mr. Castlestuart Stuart's report on the South-East Wynaad settlement have been adopted.

Unreserved Lands.

9. The *Ganjam* report gives the following as the area of unreserved lands in that district:—

	SQ. MILES.
Berhampore taluk	185
Chicacole do.	53
Gúmsur do.	685
	923

which may be accepted.

10. The *South Vizagapatam* report gives for unreserved lands in taluks to which the Act applies—

	SQ. MILES.
Sarvasiddhi taluk	22
Golgonda do.	39
	61

In *North Vizagapatam* the Pálkonda hills are not under the Act.

11. For *Godávari* the following estimate is given :—

	SQ. MILES.
Bhadráchalam-Rékapalle taluk	235
Rajahmundry taluk	50
Peddápur do.	100
Tuni do	15
Ellore do.	50
Yernagúdem do.	150
Narsápur do.	10
Amalápur do.	15
Cocanada do.	5
	630

which seems to the Conservator lower than is probable. The Agency tracts, like Rumpa, are, however, not included, which may account for the low estimate.

12. The report from the *Kistna* district gives no details, but estimates the total area at 1,500 square miles.

13. The Collector of *Nellore* reports—

	SQ. MILES.
Nellore taluk	170½
Gúdúr do.	115½
Rápúr do.	96
Udayagiri do.	77
Atmakúr do.	295½
Kávali do.	174½
Kandukúr do.	153
Kanigiri do.	196½
Ongole do.	139
	1,417½

14. The *Cuddapah* report gives the estimated area as 2,751 square miles for the district, but is unable to give the figures taluk by taluk. The Conservator thinks the estimate is low, but may be adopted. That from *Kurnool* gives the following figures, by ranges :—

	SQ. MILES.
Nandikótkur range	62½
Márkápur do.	206
Cumbum do.	50
Sirvél do.	54½
Nandyál do.	101½
Pattikonda do.	430½
Rámallakóta do.	277
	1,182

which is too low in the Conservator's opinion, though he is unwilling to alter the figures. It is better to make too small rather than too large an estimate.

15. The *Bellary* report estimates as follows, for the taluks :—

	SQ. MILES.
Bellary	143
Káyadrug	304
Hospet	135
Kúdligi	413
Hadagalli	160
Harpanahalli	241
Alúr	156
Adóni	210
	1,762

which is too high ; if anything, 1,400 square miles is more nearly correct, and the Conservator proposes to adopt that figure.

16. That for *Anantapur* gives only 91 square miles, which is manifestly far below the real area. The Conservator thinks that 2,300 square miles more nearly represents the proper amount which should be adopted.

17. The area for *Nílgiris* is given as 227 square miles.

18. So that the total area, which is estimated as coming under unreserved lands in the different districts, is 12,474 square miles. The Conservator has not much faith in the utility of such very rough estimates. One might take the figures of column 7 of the schedule in paragraph 4 of G.O., dated 5th March 1889, No. 153, Revenue, on last year's report and calculate as follows :—

		SQ. MILES.
Area uncultivated and waste land, &c.		51,223
Deduct—		
Reserved forest	631	
Do. lands	6,424	
		7,055
There remain ...		44,168
Deduct—		
Also for village sites, roads, water, &c., say 10 per cent.		4,417
There remain ...		39,751

which is more than three times as much.

19. Continuing the return given in paragraph 7 of last year's report, we have—

Class of forest.	Area on 31st March 1888.	Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1889.
A. Reserved forests under Act V ..	625	43½	37½	+ 6	631
Do. under other orders ..	..	23	..	+ 23	23
B. Do. under previous rules.	768½	..	768½	— 768½	..
C. Reserved lands	6,367¼	182¼	125½	+ 56¾	6,424
D. Leased forests	198½	..	63	— 63	135½
F. Unreserved lands	..	12,474	..	+ 12,474	12,474
Total ..	7,959¼	12,722¾	994½	+ 11,728¼	19,687½

or, roughly, 20,000 square miles represent the area of forest under the Forest Department in the Northern Circle, at a minimum.

20. The following is the list of areas proposed under section 4 during the year under review, in continuation of those in previous years' reports :—

75. Bellary ...	Jitnakatta	Notification No. 116 of 20th April 1888.	
	Jangukalgutta		
	Alagilivada		
	Uchingidrug		

76.	Bellary	Degalahalu ... ... / Yerúru ... ... / Chippigiri	Notification No. 123 of 27th April 1888.
77.	Godávari	Murari ... ... / Kovida	Notification No. 134 of 9th May 1888.
78.	Bellary	Boodikonda	Notification No. 157 of 8th June 1888.
79.	Anantapur	Gopidevarapalle ... ... / Kondur	Notification No. 232 of 8th August 1888.
80.	Kistna	Extension of (No. 19) Mutukur.	Notification No. 250 of 5th September 1888.
81.	Bellary	Billekal ... ... / Buckasagar	Notification No. 22 of 21st January 1889.
82.	Ganjam	Dabuki	Notification No. 54 of 26th February 1889.
83.	Anantapur	Janavaripalle ... ... / Agraharam ... ... / Venglumcheruvu	Notification No. 74 of 26th October 1888.
84.	Bellary	Banavikal ... . / Nimblagiri ... . / Gudaikota ... . / Sunkadaikal	Notification No. 79 of 26th March 1889.

21. *Village Forests.*—The only district in which these have been fully formed is the Nílgiris, where 8,735 acres * have been specially set aside and marked off for village use as reported in February 1887. It is from them that villagers now obtain their petty supplies, but pending the orders of Government on the matter, the Collector has arranged for such supplies to be given by free pass issued by the District Forest-officer on his order. The arrangements for their management, though not yet sanctioned, appear to be understood by the villagers and to work satisfactorily. It has been understood that in other districts the backward state of settlement has precluded the extension of the village forest system, for it is clear that the reserved forests must first be selected and settled. The Collector of Nellore, however, reports that steps are being taken to ascertain requirements, and remarks that the provision of free grazing areas for the villagers has received careful attention during settlement.

	ACS.
* Paranginád	2,908
Tódanád	* 2,957
Merkunád	1,080
Kundahnád	1,214
Munanád	216
Cherankód	360
	8,735

* (Masnigudi village alone not yet settled).

Wild Tribes in Reserved Forests.

22. The Conservator thinks that a few remarks on this subject may be useful. He does not refer to those tribes who, like the Khonds and Sauras in Ganjam and Vizagapatam and the Koyas and Reddis in the Godávari, have regular villages and do regular cultivation as well as "Kumri," for all such villages have been regularly demarcated even if enclosed within forest limits, with a considerable and amply sufficient area around them for all their purposes, but to those of a less civilized condition who scarcely make any cultivation at all and merely subsist on the produce of the forests and of such few cattle as they possess. In Kurnool and Kistna districts there are the Chentzus for whom special arrangements have been made at the forest settlement, and whom, it may be hoped, we shall gradually succeed in enlisting as our helpers in the work of forest conservancy and most especially in fire protection and the collection of minor produce. The great fires which annually devastate the Nallamalais hills in Kurnool are due, apart from the vicinity of the line of railway under construction, almost entirely to the Chentzus and in their case the usual procedure of prosecutions and punishments fails. The Conservator is anxious that

his desire to enlist the assistance of these wild people should be recorded so that the local officers may in future pay more attention to the necessity for gaining their good will and help.

23. In Nellore, there are a few Yanadis in Stríharikóta who have long been regularly employed by the department in the collection of minor produce, and the Conservator is glad to report that the present District Forest-officer has made excellent arrangements for housing them in good houses at "Broughampet" on a good site where it may be hoped they will suffer less from disease (chiefly leprosy and elephantiasis) than they have hitherto done. The Yanadis in Cuddapah, though they do not actually live within the forests, are very useful and are employed with great advantage as watchers and collectors of produce. But they require to be taught to protect the forests, for this year the worst fire in the Seshachellam hills was the work of Yanadis who were convicted.

24. In the Nílgiris, the necessity for providing for the jungle tribes has recently received considerable attention, chiefly in consequence of excellent recommendations made by the Revenue Settlement-officer of the Wynaad, Mr. A. E. Castlestuart Stuart, C.S., and some remarks of the Conservator's in reference to the Mudumalai leased forest. Under the orders of Government in G.O., dated 17th December 1887, No. 7800, eight villages of Kurumbers have been settled on 183 acres in different localities in the reserved forests and adjacent unreserved lands where their services will be valuable in the collection of minor produce, fire protection and general forest work. Other applications from both Kurumbers and Irulars are also under consideration. It may be recorded here that the Toda lands which usually include valuable pieces of "shola," have not been included in the reserved forests, though they usually adjoin them. The Todas are not allowed to cut the sholas, nor do they want to do so, but they occasionally do some damage by careless firing of the grass on the edges of the forests, though in this there is much improvement of late years. They will, doubtless, by degrees, learn to avoid the forest edges when they burn patches of grass.

Settlement.

25. *Ganjam.*—The Bondagocha and Malati blocks were finally notified during the year. The settlement of 17 other blocks was, however, completed, aggregating 203,520 acres or 318 square miles. The delay in notification is due to the necessity for rectifying mistakes. The settlement of the rest of the Gúmsur forests is well advanced; that of Berhampore is still delayed.

26. *Vizagapatam.*—The Peddapalle forest, 8,960 acres, was notified during the year. Several selections were made by the Sub-division Forest-officer in Golgonda which have since been approved by the Collector. The Collector has, in the Pálkonda Agency tracts, set aside, as reserved forests, 10 areas, 23 square miles, under general orders, the Forest Act not being in force in those hills.

27. *Godávari.*—The Coringa forest, 7,000 acres, was added during the year. The settlement of several forests in the Bhadráchalam taluk, of the Devancheruvu forest in Rajahmundry, of the Bendamurlanka forest in Amalápur, of the chief forests in Tuni, and of the Bandamcherla and Ramasingavaram forests in Ellore is also completed, aggregating 22 blocks, 145,391 acres or 227 square miles. The settlement of another 10 blocks, 86 square miles, is nearly done. New selections were made of 10 areas in Yernagúdem taluk and one in Tanuku, aggregating 126 square miles. The notifications under section 4 of the Act for the areas in Lakkonda and Juddengy selected in 1885-86 were revised but have not yet been published. It is proposed to extend the Forest Act to Juddengy as has been done in Bhadráchalam, and it is hoped that the Government will approve of this.

28. *Kistna.*—The district report says "very good progress has been made during the year. At the end of the year only three claims remained undisposed of before the Forest Settlement-officer, all the appeals filed in the Collector's court had been

disposed of and one appeal was pending in the District Court." Eight blocks of forest, 6 square miles, were added to the reserved forest during the year. Several areas (see form 59-C) aggregating 177,072 acres have been finally settled and report submitted, so that there now remain only 233,029 acres under settlement, and these so far done that the District Forest-officer is able to report as above.

29. *Nellore.*—Two forests, containing 2,035 acres, were notified during the year. In this district progress has been slow, except in the small taluk blocks; but it is necessary to note that in them several areas were completed, but the registers, maps and notifications were so carelessly done as to require to be returned by the Board of Revenue or the Conservator sometimes even twice, for rectification. Blocks, however, giving 61,867 acres have been completed—see form 59-C. The Stríharikóta compensation questions are still under settlement, but the Veligonda blocks are nearly completed. The Kálahasti Rajah's claim for about 125 acres in Udáyagiri drúg was decided during the year in his favor; that for about 1,000 acres in the Yerrakonda forests was decided against him, but he will probably appeal. The settlement of the Chimakurthi and Kanigiri hills awaits the result of the Collector's investigation of certain boundary questions.

30. *Cuddapah.*—No forests were finally notified during the year, but 59 blocks some of great importance and aggregating 704,474 acres, have been finally settled. Work is now going on much better though the more difficult work in Nellore has necessitated the Forest Settlement-officer spending more time there than in Cuddapah.

31. *Kurnool.*—No forests were added to the reserves, the settlement records of the Nallamalais forests having had to be returned for revision. It will be a great advantage when these forests can be finally notified. Only the Yerramalai selections now remain and these are in progress. Further selections of reserved forests in the taluks of Rámallakóta, Pattikonda and Koilkuntla especially will soon be made and proposed.

32. *Bellary.*—No reserved forests have yet been finally notified. The settlement work of the Shivpur forest in Kúdligi and Hadagalli 9,000 acres; of 11 blocks in Adóni aggregating 17,882 acres; of 9 pieces in Alúr giving 2,366 acres; and of the Timmapuram reserve in Bellary 1,267 acres, have been completed. In this district and in Anantapur work is very much hampered by the absence of maps. There is a Revenue Survey Party at work in the district and maps of some villages are available but not of all, and there are none of the taluks. However, arrangements have been made for the preparation of forest maps by Mr. Cook's Party and the work is in progress.

33. *Anantapur.*—No additions were made during the year to the reserved forests. The settlement of 18 forests, aggregating 76,780 acres, has been completed, but the Conservator regrets to state that the mistakes made in the papers sent up have been so numerous as to make it almost impossible that they can be accepted until they have been completely revised. The difficulty about maps is the same as in Bellary, but so far as forests are concerned, which lie wholly in the Gooty, Tadpatri or Penukonda taluks, village maps are available; for the others there is nothing but the 4 miles = 1 inch Atlas sheet from which the District Forest-officer prepares enlarged sketches.

34. *Nilgiris.*—No additions were made to the reserved forests. All the settlement work has been completed except Sígúr, Devamalai, Rallia, Naduhatti and Nadukaduhalla forests which require still the settlement of a few points of doubt. But the notification under section 16 has not yet issued for 45 Paranginád and 7 Tódanád reserves, 18,239 acres, whose settlement has been finished, nor has the notification under section 4 for 18 areas in Merkunád and Tódanád, the last of our selections, aggregating 10,180 acres, and submitted two years ago, yet been passed.

35. The following return, prepared under the orders of Government in paragraph 5 of G.O., No. 153, Revenue, of 5th March 1889, shows the condition of settlement work on the 31st March 1889. It has not been thought necessary to give separate details

for the areas notified under section 4 in each year since 1883, as such details present no particular feature of interest and only make the returns more complicated :—

District.	Under settlement up to 31st March 1888.		Added in 1888-89.		Total.		Finally notified up to 31st March 1888.		Finally notified during 1888-89.	
1	2		3		4		5		6	
		ACRES.		ACRES.		ACRES.		ACRES.		ACRES.
Ganjam	34	337,526	1	1,450	35	338,976	1	5,486	2	6,120
Vizagapatam	1	8,960	..	..	1	8,960	..	..	1	8,960
Godávari	45	453,045	2	4,100	47	458,045	1	114	1	7,000
Kistna	54	422,368	...	10	54	422,378	2	8,320	3	3,957
Nellore	120	305,230	..	..	120	305,230	5	1,623	2	2,035
Cuddapah	114	1,207,315	..	..	114	1,207,315	21	223,958	..	..
Kurnool	14	1,097,780	..	..	14	1,097,780	..	..	..	..
Bellary	37	129,636	13	71,402	50	201,038	..	..	..	..
Anantapur	38	165,278	5	10,700	43	175,978	5	8,818	..	..
Nilgiris	172	189,036	..	..	172	189,036	115	127,642	..	..
Total ..	629	4,317,074	21	87,662	650	4,404,736	150	375,961	14.	28,072

District.	Total finally notified.		Balance.					
			Settled and report received in Circle office.		Settled but report not yet received in Circle office.		Settlement proceeding.	
	7		8		9		10	
		ACRES.		ACRES.		ACRES.		ACRES.
Ganjam	3	11,606	9	92,480	8	111,040	15	123,850
Vizagapatam	1	8,960	..	..	..	..	..	..
Godávari	2	7,114	22	145,391	10	55,020	13	250,520
Kistna	10	12,277	26	127,171	5	49,901	13	233,029
Nellore	7	3,658	37	61,867	29	63,225	47	176,480
Cuddapah	21	223,958	42	612,020	17	92,454	34	278,883
Kurnool	..	..	7	902,400	2	12,880	5	182,500
Bellary	..	..	14	18,563	2	11,952	35	170,523
Anantapur	5	8,818	14	69,100	4	7,680	20	90,380
Nilgiris	115	127,642	52	18,239	..	..	5	43,155
Total ..	164	404,033	223	2,047,231	77	404,152	187	1,549,320

The areas of blocks as given in Form 69-C have been adopted.

36. The settlement work of the year was chiefly done by two special Settlement-officers—

M.R.Ry. D. Jagannadha Row in Godávari, Kistna and Kurnool.
„ I. Sarabhalingam Naidu in Nellore, Cuddapah and Bellary.

In other districts the local Divisional officers are the Forest Settlement-officers as explained last year. The Conservator considers that both the special Settlement-officers have worked hard.

Demarcation.

37. In *Ganjam* there were 27 miles demarcated in Western Gúmsur and 46 in Eastern Gúmsur. The line consists of a 10-feet cut line with cairns about 4 feet square and posts 4 feet above ground at all corners at about 150 yards apart in straight lines. The cost in Gúmsur is reported to have been Rs. 16 per mile including marks for the year, but this refers to the whole work and not to areas fully completed which alone it is safe to take for comparison of cost. The total amount spent during the year was Rs. 2,129. A useful return and map have been submitted by the District Forest-officer showing progress and cost to date. The following forests have been completed in Gúmsur :—

Name.	Length of line.	Number of marks.	Cost.	Cost per mile.	Remarks.
	MLS.		RS.	RS. A. P.	
Panchbuthi	35	740	314	8 15 5	Eighteen marks per mile on an average.
Kurcholi	21½	324	289	13 7 0	
Vishnuchakram	23¾	354	359	15 1 10	
Sandusalya..	7¼	170	220	29 5 7	
Bodochendana	6½	114	98	17 12 2	
Koolada	9¼	109	347	37 7 7	
Venjagiri	17½	400	151	12 14 1	
Malati	11¾	250			
Rayigoda	17¼	260	168	9 11 7	
Total ..	149	2,721	1,946	13 0 11	

In Gúmsur, the total amount to be done is 973¾ miles, of which 621 miles have been completed. Some of this, however, consists of lines between two blocks which the Conservator thinks it is unnecessary to demarcate. Of 17,963 posts required, 7,016 have been put up; while the amount spent on the taluk to date is Rs. 11,008. Some forests merely await the settlement of boundary questions to be completed. In Berhampore range, the Ramogodo, Bainamari and South Mohiri forests with 58¾ miles of boundary have been completed at a cost of Rs. 405, or nearly Rs. 7 per mile, but the posts are not yet up. Seven small blocks of proposed reserved forests in Berhampore taluk with 23 square miles of line have been demarcated by a trench and hedge of screw pine at a cost of Rs. 355, or Rs. 15-7-0 per mile. It is hoped that the current year will see the demarcation completed. In the Ganjam district demarcation work is comparatively expensive as the lines are nearly all through thick forest in which many trees, some of large size, have to be cut. For such forest the Conservator does not consider Rs. 13 per mile too heavy a rate, by any means.

38. *Vizagapatam.*—In the Pálkonda hills, the Antikonda forest was commenced and 15 out of 16 miles done at a cost of Rs. 52-6-0, but posts have still to be put up. In Sarvasiddhi, the Peddapalle forest, 43½ miles of boundary, has been completed and 75 out of 200 posts erected at an expenditure of Rs. 364-9-0. In Golgonda, three forests were preliminarily demarcated, Arlova, Madalamma and Pedim, 30¾ miles of boundary, but without marks, pending settlement, for Rs. 227-8-6, or about Rs. 7 per mile of line. In some, in this district, 89¼ miles were done for Rs. 645. The character of the lines is similar to that of Gúmsur.

39. *Godávari.*—During the year the following work was done in the district:—

			Average about.
	RS.	RS.	
120¾ miles, preliminary, for	605	5	
217 „ final „	2,567	12	
17¼ „ fenced „	439	25½	
355	3,611		

while 590 posts were erected for Rs. 559 or nearly one rupee each, which is rather high. As for Ganjam, the District Forest-officer has submitted a return showing the progress of demarcation work to date. From it, it would seem that only a few forests are absolutely complete, viz., the following:—

Taluk.	Forest.	Length of line.	Posts.	Cost.	Average per mile.	Remarks.
		MLS.		RS.	RS. A.	
1 Rajahmundry ..	Devancheruvu ..	14½	125	1,005	69 5	10 feet lines; thorn fence.
2. ..	Kothapalli ..	41½	82	1,138	17 6	10 feet lines and posts.
3. Cocanada ..	Coringa ..	16	99	120	7 8	Creek boundaries, so no lines; posts only.
4. Ellore ..	Barrikonda ..	11¼	57	328	29 2	10 feet lines and posts.
		83¼	363	2,591	..	

the average for regular line clearing (Nos. 2 and 4) with posts being about Rs. 27-12-0 or more than double the cost in Gúmsur. The total expenditure was Rs. 4,158.

40. *Kistna.*—Two hundred and fifty-one miles were done during the year at a cost of Rs. 4,416, or Rs. 18 per mile. But much of this is for incomplete lines, so that the statistics are of no use for comparative purposes. It seems that the following forests are now completely finished :—

Taluk.	Forest.	Length of line.	Marks.	Cost.	Per mile.
		MLS.		RS.	RS.
Bezváda	Kondur	15	122	323	22
Krósúr	Venkatayyapalem ..	53½	331	1,393	26
Do.	Nevalipur	2	20	38	19
Bápatla	Mathayyapalem ..	3½	33	289	80
	Bápatla (1)	*¼	8	18	90
Bandar	Kanukolu	†¼	3	18	102
		74½	517	2,079	28

* 362 yards. † 295 yards.

so that Rs. 28 and not Rs. 18 should be taken as the cost per mile. It seems that there is not much left to be done, but it may be hoped that in future there will be greater economy and that blocks will be finished off and not left partly done.

41. *Nellore.*—It is reported that 470 miles were demarcated during the year at a cost of Rs. 2,992, or Rs. 6-6-0 per mile. From the statement submitted, however, it would seem that, as in other districts, much of this length was not absolutely completed with posts, &c., so that, for comparison's sake, we must select those areas which are fully done. Among such, apparently, are—

Taluk.	Forest.	Length.	Cost.
			RS.
Gúdúr	Velliped	4¾	31
	Kadived	4	26
	Vadur	5¾	48
	Nellaballi	2¾	24
	Chillakur	4¼	33
	Gúdúr	5½	44
	Vedur	4	27
		31	233

or an average of Rs. 7-8-0 per mile, which is a fair rate, considering that in Nellore it is mostly only small jungle that has to be cut and that palmyra posts are cheap. It seems that the line cutting work has made good progress, but the erection of marks is still backward, probably because it is judged best not to do it until settlement has so far progressed that it is certain that the line will no longer be further altered. The Board's orders on many forests recently have directed alterations and all these will increase the expense of demarcation. The boundaries of the Stríharikóta forests and the Casuarina plantation reserves have been sown with palmyra seeds, which are doing very well.

42. *Cuddapah.*—During the year 141¾ miles of line were cleared and 1,487 posts erected at a cost of Rs. 3,316, or Rs. 23-6-0 per mile. The lines are 15 feet broad and the loose stones are cleared off, so as to make them more useful for protection purposes so that the work seems more expensive than it really is. These figures may be taken as a fair average. The return of exact condition of demarcation work has not yet been received, but the District Forest-officer has submitted an excellent map showing the state of the work.

43. *Kurnool.*—The chief piece of demarcation work is that of the Nallamalais, where 248 miles had been completed up to the year and 15 were done in the year under review at a cost of Rs. 658, including the reclearing and repairing of posts along the old line. Part of the line is 30 feet and part 15 feet broad and the forest is, like that of Ganjam and Godávari, heavy with many trees and an abundant yearly

crop of coppice. In the Veligondas, 64 miles were done in previous years and 40 miles in the year under review at a cost of Rs. 61, most of the work being done by villagers for the permission to take free the cut material. In the forests of the Yerramalais, the following were done :—

							MILES.	RS.
Dhone reserved forest			...	...	...	...	59	385
Gadithemadugu reserved forest			...	...	...	...	10	51
Lanjabunda	do.	do.	...	...	...	...	14	93
Yaipalapadu	do.	do.	...	...	...	...	25	178
Rámallakóta	do.	do.	...	...	...	...	20	87
Jaladurgam	do.	do.	...	...	...	...	10	41
							138	835

or Rs. 6 per mile, which is about the correct rate for forests where there is little but small scrub and a few trees to cut. The total amount done in the year was 193 miles at a cost of Rs. 1,566, or an average of Rs. 8 per mile for the whole.

44. In *Bellary*, 19½ miles were cleared during the year, and a very large number of posts erected at a cost of Rs. 543. But the lines were not at all fully demarcated, and the posts usually belonged to lines already cleared, so that the only figures we can take are those of the Tumergudi reserved forest where 4½ miles with 40 cairns were demarcated at a cost of Rs. 46, or about Rs. 10 per mile. This is rather heavy for such a country as Bellary where there is very little to be cut.

45. In *Anantapur*, 43½ miles of line were cleared at a total cost of Rs. 862, but, as in Bellary, the work is partial and the data cannot be used for comparison purposes. The following five reserved forests, which are apparently completed, give about Rs. 8 per mile, which is not at all heavy when it is considered that loose stones are cleared off the lines and the posts have often to come from far. The Muchukota demarcation is well done and is a good type of a useful line :—

Taluk.	Forest.	Length of line.	Marks.	Cost.
		MLS.		RS.
Anantapur and Tadpatri ..	Muchukota	84¼	880	588
Anantapur	Durgam	19¼	285	149
Dharmavaram	Kalyándrúg	13	191	81
Penukonda	Narsampalle	5	118	130
Hindupur	Somarazmalai	6	42	61
		127½	1,516	1,009

The wall of the Gootoor Reserve, referred to last year, which cost Rs. 1,467 for nearly 15 miles of line, or Rs. 100 per mile nearly, is a good work which is likely to be useful and not expensive.

46. In *Nílgiris*, 121½ miles were demarcated at a cost of Rs. 2,002, or Rs. 16-8-0 per mile, including post. In addition, 542 posts were renewed for Rs. 75, or As. 2-2 each, and 5¼ miles recleared as usual for Rs. 49, or about Rs. 9-5-0 per mile. The demarcation of nearly all the Nílgiri forests has now been done, the average cost being about Rs. 9 per mile of line and 4 annas per mark, the marks consisting of posts surrounded by piles of stone. The total amount spent was Rs. 2,431.

47. Thus, taking only fully completed areas, the cost of demarcation in the different districts compares as follows, per mile, posts included :—

	RS.	A.	P.	
Ganjam	13	0	0	Thick forest.
Godávari	27	12	0	Mostly thick forest.
Kistna	28	0	0	Thin forest.
Nellore	7	8	0	Do.
Cuddapah	23	6	0	Some thick, some thin forest.
Kurnool	8	0	0	Some thick, some very thin.
Bellary	10	0	0	Very thin forest.
Anantapur	8	0	0	Thin forest.
Nílgiris	16	8	0	Some thick forest, some grass only

The Cuddapah lines are broader, which accounts to some extent for the high rate, but the rates in Godávari, and most especially in Kistna, are much too high. The Conservator has, on several occasions, during the year, objected to the high rates charged in Kistna, and he trusts he may not have to do so again. Taking all considerations into account, the cheapest work is that done in Ganjam and Kurnool.

CHAPTER III.

Surveys, Working Plans and Plans of Operations.

48. (*a*) *Surveys.*—The survey of the forests of the districts of Bellary and Anantapur has during the year been ordered by Government to be taken up by No. II Party now at work in those districts. Under Mr. J. H. Cook, work began on the 15th February 1889, and before the close of the year 14 blocks of forest in the Adóni and Alúr taluks, aggregating about 9,386 acres, had been done. The maps are to be on the scale of 4 inches to the mile and to show as accurately as possible the boundaries and the interior features, both natural and artificial.

49. In Ganjam, some small surveys were made by the local staff, assisted by temporary hands, to fix the boundaries of compartments and to lay down reserved forest boundaries more accurately on the maps. In Godávari, boundary surveys were made for the Devancheruvu, Murari and Kovida reserved forests. In Cuddapah, a traverse was made of the boundary of the Lankamalai reserved forest. In other districts no work was attempted.

50. (*b*) *Working plans.*—The following are the working plans so far prepared:—

1.	Nellore district	Casuarina plantations		By Mr. Vincent—see para. 29, Annual Report for 1885-86.
2.	Cuddapah district	Ballipalle.		By Conservator — see para. 29, Annual Report for 1885-86.
3.	Bellary do.	Sandúr		
4.	Nílgiri district	Cairn hill working circle		By Conservator — see Inspection Note of 6th April 1887.
5.		Aramby working circle		
6.		Governor's shola working circle		
7.		Coonoor peak working circle		
8.		Bleakhouse	do.	
9.		Bandy shola	do.	
10.		Blackbridge	do.	
11.		Ghât Reserve	do.	
12.		Barliyár	do.	

51. As explained under "plantations," the working plan for the Casuarina plantations has had to be kept in abeyance since 1886 in order to clear off the windfall wood caused by the cyclone of November that year. As also there explained, it is now proposed to modify the working plan and to endeavour to provide for permanent reproduction instead of relying on clear cutting and replanting, which has not been very successful.

The total expenditure on the plantations covered by the working plan has been up to date Rs. 1,78,000—see Appendix B. Adding to this two-thirds of the amount as an estimate of probable establishment charges, we have Rs. 1,78,000 + Rs. 1,18,000 = Rs. 2,96,000, interest on which at 4 per cent. is Rs. 11,840. Now the total amount realized has been (see Appendix B) Rs. 82,426 in 5 years, or Rs. 16,485 yearly, which shows that we have obtained $5\frac{1}{2}$ instead of 4 per cent. interest. The Conservator has given this calculation because in the return in the Appendix it may be noticed, especially with Tamminapatnam, that the amount realized by cutting certain compartments was considerably less than the cost of the compartments. That was no doubt true, for those compartments were old Jungle Conservancy work and had been very expensive, but the results for the whole area are fully satisfactory. For the 5 years during which Mr. Vincent's working plan has been in force, the average outturn has been 2,650 tons yearly, which is a little more than the estimated annual yield of 2,500 tons. During the year 4,010 tons of casuarina wood, mostly from the previous year's cuttings, were sold locally for Rs. 20,819, or about Rs. 5 per ton.

52. In the Ballipalle working circle in Cuddapah compartments 7-*a* and 9-*a* were cut, the result being:—

Compartment.	Area.	Engine fuel.	Small fuel.	Total.	Amount per acre.
		TONS.	TONS.	TONS.	TONS.
7-*a*	26	195½	250	445½	17
9-*a*	11	154½	133½	288	26
Total ..	37	350	383½	733½	20

In paragraph 16 of last year's report, it was shown that the cuttings of the last six years had given the following results:—

Year.	Area cut.	Outturn.	Average per acre.
		TONS.	TONS.
1882-88	309¾	4,848	15·6
Add.			
1888-89	37	733½	20
Total ..	346¾	5,581½	16

53. The working plan for Sandúr has, according to the results of the Conservator's recent inspection, been practically taken as of no account as explained in paragraph 114. There is no use saying more than that 30 tons small wood were cut in Rámandrug compartment 15 and 142 tons in Donemalai compartment 4 at a cost of Anna 1 and Pies 6 per acre.

54. The results of the year's work in working circles Nos. 4 to 9 in the Nílgiris is given in Appendix C. It will be seen that the chief plantations gave—

Area. A.		C. FEET.	
24	Bleak house	12,564	or 5,614 cubic feet per acre.
7	Bandy shola	22,047	
11	Coonoor Peak	164,202	
4	Cairn Hill	49,471	
10	Aramby	66,110	
56		314,394	

The provisions of the working plans have not been very rigidly adhered to, which the Conservator is disappointed to find. The working plan for Blackbridge (No. 10) has never been carried out at all. Those for the Ghât Reserve and the plans of operations for other indigenous forests have been held in abeyance under what the Conservator cannot help thinking is an erroneous notion, the idea that the Government had ordered all fellings in indigenous forest to be stopped. The Conservator believes the Government only intended their order to refer to some of the forests in the Ootacamund settlement and especially to Lovedale, Fairlawns and Marlimund sholas which are places of public resort.

55. *Plans of operations.*—Plans of operations, as explained in paragraph 16 of last year's report, are being made by Mr. Lushington for the Sál forests of Ganjam.

In other districts not much has yet been done, but as the areas are constituted reserved forests, the Conservator intends to have the plans of operations made and regularly recorded. Some have already been sent in, the rest are expected with the budget.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

(*a*) *Establishment.*

56. *I. Superior staff.*—The staff during the year consisted of—

One Conservator	Mr. J. S. Gamble on furlough to 6th January 1889. Mr. A. W. Peet, acting.

One Deputy Conservator—
Mr. F. d'A. Vincent (on furlough).
„ J. H. B. Brougham ... ... Nellore.
„ E. D. M Hooper was transferred to the Southern Circle in May 1888.

Five Assistant Conservators—
Mr. A. W. Lushington ... ... Ganjam.
„ G. Homfray ... ... Kistna.
„ J. S. Battie ... ... Godávari.
„ F. A. Lodge ... ... Cuddapah.
„ H. T. D. Sweet (on furlough).
„ P. M. Lushington ... ... Kurnool.

Mr. C. D. McArthy, trained Forest-officer from the Cooper's Hill College, joined the circle in December 1888 and was posted to Cuddapah as an Assistant Conservator.

Thus, it will be seen there were only six Deputy and Assistant Conservators available during the year for district charges, and one of these has not yet passed his examinations. Consequently three districts—Bellary, Anantapur and Nílgiris—had to be placed under Sub-Assistant Conservators, and one—Vizagapatam—divided into two charges held, respectively, by the District Forest-officers of Ganjam and Godávari in addition to their own duties. This latter arrangement is an inconvenient one which the Conservator can only regret, in agreement with the Collector (Mr. Willock), who remarks " practically nothing has been done during the year. I suppose this was unavoidable in the absence of a District Forest-officer, but I think it is much to be regretted that such was the case."

57. The weakness of the staff of the circle is so marked that it is difficult to see how proper progress is to be expected unless matters alter, and we obtain a staff fit to do the work. Six officers for nearly 20,000 square miles of forest of all kinds and over 7,000 square miles of reserved forests (present or under settlement) is obviously utterly inadequate, especially when it is considered that there are forest divisions in Northern India in which 100 square miles is not considered too small an area for one officer. If our full complement of ten District Forest-officers were all present, each would have on an average 730 square miles of reserved and 1,249 square miles of unreserved forest to look after. In some districts, the want of good officers, capable of taking their full responsibility, has resulted in the state of affairs becoming bad and especially is this the case in Anantapur. If we get no assistance from the Government of India as has been urgently asked for, it is to be feared that not only will progress be very slight, but works already done will suffer and the revenue be seriously affected.

58. *II. Subordinate staff.*—There was no change in this during the year, the sanctioned establishment being as follows:—

Sub-Assistant Conservators	6
Forest Rangers	22
Foresters	48
Forest guards	348
Total ...	424

at a cost of Rs. 6,176 monthly. This, too, is inadequate for present wants, and proposals for the necessary increase are now before the Government.

59. At the close of the year the following officers returned from the Forest School at Dehra Dún with the Ranger's certificate:—

V. Alwar Chetty, B.A., Sub-Assistant Conservator.
T. N. Hearsey, do. do.
W. R. McCay, Forest Ranger.
L. Hanumanthulu, Forester.
S. Arokiaswamy Pillai, do.
P. R. Rathnaswamy Pillai, do.

the first-named officer obtained several prizes and honors in most subjects.

60. *Ranges.*—The distribution of ranges during the year was as follows :—

District.	Range.	Officers.	Area of reserved forest and proposed reserved forests, reserved lands, leased forest, &c.	
			Sq. MILS.	
Ganjam ..	Eastern Gúmsur	1 Forest Ranger, 1 Forester	271	
	Western do.	1 Do. 1 do.	237	
	Berhampore	1 Do.	37	
	Chicacole	....	5½	
				550½
Vizagapatam ..	Pálkonda	1 Forest Ranger	23	
	Sarvasiddhi	1 Forester	14	
	Golgonda	1 Do.	10	
				47
Godávari ..	Bhadráchalam	1 Sub-Assistant Conservator, 1 Forest Ranger and 2 Foresters.	526	
	Rajahmundry	1 Forester	77	
	Peddápuram	1 Forest Ranger	252½	
	Delta	1 Forester	48½	
	Ellore	1 Forest Ranger and 1 Forester	165	
				1,069
Kistna	Bandar	1 Forester	43	
	Bezváda	1 Forest Ranger	87½	
	Guntúr	1 Forester	29	
	Bápatla	1 Do.	38	
	Krósúr	1 Do.	104½	
	Vinukonda	1 Forest Ranger, 1 Forester	188	
	Palnád	1 Forester	193	
				683
Nellore	Strîharikóta	1 Forester	56	
	Casuarina Plantations	1 Do.	4½	
	Gúdúr	1 Do.	36	
	Rápúr	1 Do.	129	
	Nellore	1 Do.	38½	
	Atmakúr	1 Do. (temporary)	47½	
	Kanigiri	1 Forest Guard	72	
	Kávali	1 Do. Ranger, 1 Forester	96½	
	Udayagiri	1 Do. Guard	19	
				499
Cuddapah ..	Kódúr	1 Forest Ranger	284	
	Rájampet	1 Forester	126½	
	Sidhout	1 Do.	246½	
	Badvél	1 Forest Ranger	269	
	Proddutur	1 Forester	133½	
	Cuddapah	1 Forest Ranger	316½	
	Kadiri	1 Forester	214	
	Madanapalle	1 Do.	103½	
	Ráyachóti	1 Do.	204½	
	Váyalpád	1 Forest Ranger	124½	
				2,022½
Kurnool ..	Nandikótkur	1 Forest Ranger	400	
	Nandyál	1 Do.	300	
	Sirvel	1 Forester	200	
	Cumbum	2 Foresters	362	
	Márkápur	1 Forest Ranger	415	
	Rámallakót	1 Forester	19½	
	Pattikonda	1 Do.	50½	
				1,747
Bellary ..	Sandúr	1 Forest Ranger, 1 Forester	125½	
	Bellary	1 Forester	42½	
	Adóni	1 Do.	61½	
	Kúdligi	1 Do.	67½	
	Harpanahalli		84½	
				381½
Anantapur ..	Gooty	1 Forester	84	
	Muchukóta	1 Do.	45½	
	Penukonda	1 Forest Ranger	83	
	Dharmavaram	1 Forester	32½	
	Hindupur	1 Do.	43½	
				288½
Nílgiris ..	Ootacamund	1 Forest Ranger	26	
	Naduvatam	1 Forester	29½	
	Melúr	1 Do.	84	
	Coonoor	1 Forest Ranger, 1 Forester	35½	
	Kótagiri	1 Forester	18	
	Sígúr	1 Do.	79	
	Mudumalai	1 Forest Ranger	111	
				383
		Grand Total ..	..	7,671

which is made up of—

Reserved forests	631
Proposed reserved forests	6,280½
Reserved lands	171½
Leased forests	135½
Selected for reserved forests	452½
Total ...	7,671

61. The above statement shows the approximate areas of reserved forest in the ranges. The areas of unreserved forest cannot be given range by range, but if 12,474 square miles is the area adopted for the unreserved forests in 58 ranges, each range will on an average control 215 square miles. So, too, taking 7,671 square miles as the area of reserved forest, leased forest and reserved lands (nearly all proposed reserved forest), the average area of the beat of each of the 348 forest guards is about 22 square miles of reserved and 36 square miles of unreserved forest. In the Central Provinces, the province which most nearly resembles Madras in forest matters, each forest guard has 16 square miles of reserved forest, 1st and 2nd class, to look after. In most other provinces the area is very considerably less.

(b) General protection and breaches of Forest Rules.

62. Form 63 gives the statement of prosecutions for the year. There were 1,204 new cases, and 1,150 disposed of, of which 834 or 72 per cent. resulted in conviction. There was an important case in the Váyalpád taluk of Cuddapah in which the systematic theft of Red Sanders wood for the manufacture of Tirupati images was discovered. The accused were acquitted, but a fresh trial was ordered, while it seemed probable that the forester, who has since absconded, was implicated in the affair. He has since been convicted.

63. In Kurnool, two important cases of timber theft are noticeable; one in which a tannadar was sentenced to four months' imprisonment and Rs. 200 fine; and another in which a Railway fuel contractor in Pattikonda, who had been twice previously convicted, was sentenced to six months' rigorous imprisonment and Rs. 50 fine. An important case in the Adóni taluk of Bellary was tried and disposed of as a revenue case and does not come into form 63, but is nevertheless noticeable. The headman and karnam of a village was punished for entering in their durkhast memorandum that there were only 60 trees of any value and 100 of none on a piece of land which, however, was found by the Tahsildar to contain no less than 671. In Anantapur also, the headman and others of a village in Dharmavaram taluk were convicted of cutting trees in the Nyalakota reserve; the case is under appeal to the High Court.

64. The Conservator is glad to notice the decrease in number of cases in Godávari, Nellore and Nílgiris, which he believes to be due to better personal supervision by the staff within the forests, rendering the commission of offences difficult and consequently reducing their number. In his opinion, the better the protective staff look after their forests within them instead of trusting to passes and paper checks without, the better the forests are protected and the fewer are the cases which require prosecution.

65. The number of cases compounded was 529 and the amount received was Rs. 1,818. One curious case occurred in Ganjam in which the headman of a village in Gúmsur taluk sent his servants and brought out three loads of wood for his own use without permit. This was compounded for Rs. 100. The District Forest-officer of Kurnool brings to notice how some Magistrates misunderstand the section, one of them having adjourned a case before him in order to know if it could not be compounded. The orders of Government (G.O., No. 153, Revenue, of 5th March 1889) were received too late for the record of any information regarding cases found to be false or unproven when taken before the compounding officer, but special report is under preparation.

(c) Forest fires and fire-protection.

66. Form 62 has been very carefully scrutinized. The Conservator has struck out several areas which were not burnt and on which no money was spent, for it is useless to enter all areas, and the deductions to be made from the figures, not very

reliable at the best of times, are even less so when such areas are entered. Forests vary so much in their comparative liability to fire that returns like No. 62 can only be used as a record, and comparative deductions from them require to be made very cautiously. Out of 1,667 square miles whose protection was attempted, 229 were burnt, *i.e.*, nearly 14 per cent., so that 86 per cent. were saved. The cost of protection of 1,438 square miles was Rs. 14,216, or nearly Rs. 10 per square mile, which is by no means an excessive rate.

67. In *Ganjam*, as might be expected this year, fires were very bad, and especially in Chondorgiri and Ambazara forests where the grass is thicker than in the forests in the more level country. Still, it is satisfactory that matters in such an exceptional season were not worse.

68. The Peddapalli reserve in *Vizagapatam* was successfully protected, but there is not much inflammable material. When the Golgonda and Pálkonda forests are taken in hand, where the grass is heavier, it will be harder work.

69. In *Godávari*, there were some bad fires in Bhadráchalam, the whole of Rapak reserve and considerable areas of some other reserves having been burnt. In the lower taluks and in Rékapalle protection was more successful.

70. In *Kistna*, fires were very few and protection successful; but in *Nellore*, where it is in the Veligonda hills alone that fires are common, an area of over 10 square miles was burnt. As usual, it is said that the fires came from the Cuddapah side, and this statement is endorsed by the personal note of the Collector, Mr. C. D. Macleane. The Cuddapah officers say fires come from Nellore: probably both are right, and the fires are lit on the ridge by graziers.

71. In *Cuddapah*, fires were few up to the 31st March, though it is to be regretted that since then there have been several which have caused a good deal of damage. Fires in Cuddapah are usually the result of incendiarism, and no amount of reasonable expenditure can prevent that. We can only hope to make it understood by degrees that the Government is anxious to protect its forests, and enlist the sympathies and the active help of the people. The remarks of the Collector (Mr. E. J. Sewell) are herewith reproduced:—

"The fire season has, as the District Forest-officer says, been disastrous. The forests were very dry and fires began unusually early and have raged far and wide. I think there is little doubt that the forest establishment is far too weak to prevent them. The forests in which fires broke out are for the most part a very long way from the nearest village, while such villages are, as a rule, small, thinly inhabited and with poor village officers and ryots. If they accompany the Government officer who goes to put out the fire and help him, that is as much as they can be expected to do. We cannot, therefore, look for much help from them in *preventing* fires. It seems to me that it would be better policy to concentrate the temporary establishment (much strengthened) in the fire season on the larger blocks of really valuable forest, such as the Kódúr range, the Lankamalais, Seshachellam, and Pálkonda Hills and one or two other blocks and really keep the fire out of them."

The Collector's advice is really what is being followed, for the chief areas to which attention is devoted are the Seshachellam, Palkonda and Lankamalais forests. But we have endeavoured not quite to neglect other areas. It may be interesting to record here the system by which incendiaries work in Cuddapah as discovered by Mr. Lodge. Two bratties (cowdung cakes) are procured, one dry, the other damp; the dry one is lit, and the damp one placed over it and some grass on top. By degrees the fire passes from the dry one to the damp and thence to the grass and on to the forest. When the latter catches, the perpetrators are far away.

72. As usual, in *Kurnool*, large fires devastated the Nallamalai hills. Along the new railway, of course, everything almost was burnt; and in other parts the Chentzus were as active as usual in burning the forest. Here, too, punishments and threats are of little avail, but the Conservator is glad to say that a beginning is being made to get the Chentzus to become our assistants and not our opponents in protection.

73. The large fires in the Sandúr hills of *Bellary*, which have been specially reported, occurred partly in, partly after the end of, the year under report. About one half of the total area of the leased forests was burnt, but the portions where thinnings and clearings had been made were fortunately saved. The occurrences have been specially reported on. In *Anantapur*, the only fire of consequence was an

unfortunate one in Kottakota—unfortunate, because in that reserve the seedlings had been coming up in a very promising way. But the area burnt was small.

74. In *Nílgiris*, it is regrettable that the Moyar and Sígúr forests were almost completely devastated, the fires being, as usual, the work of Jain Kurumbers, a tribe of the very shyest nature whom it is most difficult to get access to. The Collector and District Forest-officer are taking steps to get more into the confidence of these people and to employ them, and it is to be hoped that their endeavours will meet with success by degrees. In other parts of the district, and especially in the lower slopes of the Coonoor Valley and adjacent forests, where very careful arrangements were made, protection was happily very successful.

75. On the whole, therefore, the year was a bad one for fire-protection, but it must not be forgotten that the forest staff is extremely weak and that in most districts the heavy work of settlement and demarcation has told and has prevented as much success in fire-protection as we might hope for were we not encumbered with these absolutely necessary preliminaries to steady work. There is no doubt that fire-protective works were somewhat backward this year, as the Conservator found on his tour in February 1889 in the Ceded Districts; he trusts that in another year District Forest-officers will begin these important works at a much earlier season. But on the whole he thinks the success obtained *under the circumstances* was good. Personal energy and extra expenditure avail little, as before remarked, when incendiaries are determined to burn. We can only hope year by year, to get on better terms with our neighbours and by degrees we shall succeed, and these remarks will show one reason why the Conservator attaches such little value to any deductions from the statistics of Form 62.

76. The Government, in paragraph 9 of their review of the Annual Report for 1887-88, compare our results with those of the Bombay Presidency which cost 2 annas per square mile. In paragraph 51 of the Inspector-General of Forests' Review of the Operations of the Department for 1886-87, it is explained that almost the whole area under the Bombay Forest Department is entered in the returns (total area of reserved forest 14,244 square miles, area attempted to be protected from fire 11,078 square miles). This in itself, apart from the fact that the greater part of the Bombay Presidency rejoices in an early and regular monsoon, is enough to explain a low percentage of cost, for were we to enter all our forests in the same way, our percentage, though it could not be so small as "2 annas," no protective works of any real use in bad areas being possible at that rate, would yet be less than is given for any other province in India. Form 62 refers to the official year, so that in most districts it gives the statistics for the end of the fire season of 1888 and the beginning of that of 1889. This is not satisfactory, and the Conservator hopes shortly to propose means of maintaining a better record. We could not give returns up to 30th June as is done in the Bengal provinces, because sometimes our fire season extends to long after that date, but possibly it may be found best to give returns for the calendar year and so for a full season, or to omit the returns from the annual report and report specially in the autumn.

The total expenditure on "fire-protection" (A VIII-E) was Rs. 14,216, the estimate having been Rs. 15,900.

(*d*) *Grazing.*

77. The scarcity towards the end of the year has made it necessary to open some of the reserved forests to free grazing in *Ganjam*. In the Pálkonda forests of *Vizagapatam*, the Agent found it necessary to close the reserved forests, especially against cattle from the Chicacole side. The Peddapalle reserve has, of course, been closed, as what it requires for some time is absolute rest.

78. In *Godávari* grazing dues were collected in Coringa reserve. The Devancheruvu forest has been closed, and others, like those in Ellore, must be similarly treated as soon as the final notification constituting them reserved forest issues.

79. The sales of the grazing in *Kistna* realized Rs. 49,442. Some of the important reserved forests were closed, and in all reserved forests the admission of goats was stopped. In *Nellore* the grazing revenue was Rs. 14,769, showing an increase of Rs. 2,000 on last year.

80. In *Cuddapah* the reserved forests and proposed reserved forests whose settlement is complete were closed—other forests were left open for grazing on payment, half rates being charged in the Pullampet and Ráyachóti taluks and full rates in the rest. The Collector says that "the number of permits issued (13,061), when the cattle of the district are numbered by hundreds of thousands, shows that very little need is felt of the grass in reserves. There is such a wide acreage of cultivable, but uncultivated land of poor quality, more especially in the sub-division, which is used for grazing, that the reserves will not be much used or needed for a long time to come."

81. In *Kurnool* the system started last year, and described in the Annual Report, was continued, 75,134 head of cattle being grazed as against 72,659 last year. Half rates were charged in the Nallamalais, which is a rise on the previous year when quarter fees were levied.

82. In *Bellary* grazing was charged for in reserved lands, it being free in others. A considerable amount of grass was removed on payment of low rates. In *Anantapur* grazing fees were introduced from 1st August in reserved lands at half rates. It is to be regretted that the Muchukóta forest, which had been closed for so many years, was thrown open, apparently, under a mistake.

83. In *Nílgiris* full rates were charged in the forests of the settlements of Ootacamund and Coonoor and one-fourth rates in Kótagiri, Kullar, Melúr and South-East Wynaad. The revenue for the year was considerably improved, being Rs. 2,123 against Rs. 474 last year.

84. The total revenue from grazing and fodder grass was Rs. 77,459 as against Rs. 59,773 in 1887-88. The introduction of grazing restrictions and payments is only being done by very slow degrees and cautiously: eventually, the revenue ought to be considerable, but many of the reserved forests will require absolute rest or so much rest as is compatible with the settlement, for, except in the remote forests in such districts as Godávari and Nílgiris, the reserved forests of the Northern Circle are almost throughout suffering from excessive grazing and the burning, lopping and other bad treatment which used to accompany it.

(*e*) *Natural Reproduction.*

85. In the Sál forests of *Ganjam* natural reproduction is always good as it is in the ironwood forests of *Godávari*. It is reported that 1888 was a year of abundant seed in Ganjam, but that in 1889, the present year, a year of drought and scarcity, the flowers of the Sál have almost failed.

86. From *Kistna* it is reported that "there is no natural reproduction in the forests open to grazing" which confirms the Conservator's remarks in para. 84 as to the necessity of closing reserved forests in such districts as Kistna. In those which were closed, the report is that the good effects of exclusion of cattle are plainly visible.

87. From *Nellore* the District Forest-officer reports that the system of cutting the roots of Narudu (*Pterospermum suberifolium*) trees introduced by Mr. Vincent in 1886 at Strírharikóta has been most successful, numbers of good straight 8-10 feet poles having come up around the parent trees. He also reports that the coppicing of the Nerudu (*Eugenia jambolana*) and Chikreni (*Albizzia amara*) trees has been very successful, and good poles, such as pollarding could not give, have resulted. It has also been ascertained this year that casuarina coppice is much more successful where there is side shade, *i.e.*, where only one or two trees are cut here and there than where clean cuttings have been carried out.

88. As from *Kistna*, so it is reported from *Kurnool* that there is little or no natural reproduction in areas open to grazing or liable to be burnt. On the other hand the Conservator is glad to be able to report the great improvement which he has noticed after an absence of nearly two years in the forest growth on the hills of *Cuddapah*. This is chiefly due to fire-protection and the exclusion of cattle for a while from reserved forests. So, too, in *Bellary* and *Anantapur* the improvement in the forests is noticeable, and if only it can be laid down that certain areas are to be definitely and permanently protected for a series of years and not thrown open

without reasons of the utmost urgency, he believes that before long a very marked change will be made in the scenery of those districts.

89. In Nílgiris the natural reproduction in areas which, like Lamb's Rock Reserve, Ghât Reserve and Longwood, have been cleaned of *Strobilanthes*, brambles and similar impediments is extremely good. So, too, is the coppice growth in cleared shola areas in Cairn hill, Coonoor peak, &c. The reproduction of Eucalypti, both from coppice and by self sown seedlings, is very good, but the *Acacia Melanoxylon* still refuses to reproduce as well as might be desired. The growth of seedlings and shoots in thinned areas in Mudumalai is reported to be good.

(f) Artificial Reproduction.

90. Form 60 gives the area of *plantations* as well as the record of *cultural operations* for the year.

91. *Plantations.*—The chief plantations in the circle are—

(1) The casuarina plantations in Nellore.
(2) The Australian plantations and mahogany plantation in Nílgiris.
(3) The old mixed plantations in Cuddapah.

92. The areas in *Godávari* and *Kistna* are mostly small patches of plantation, the work of the Jungle Conservancy Department previous to 1883. They are maintained, and, as time and funds allow, are being gone over and put in order. After the completion of settlement work more attention will be paid to them and endeavours made to bring them under proper systematic working like the plantations of Nellore and Nílgiris. Small addition of 10 acres of casuarina was made in Gopavanipalem and 10 acres of casuarina and Tella maddi (*Terminalia Arjuna*) in Kanukolu. Vacancies were filled up in the "Weld" plantation at Bandar mostly with Tella maddi, Neredu, Sissu (*Dalbergia Sissoo*) and edible date. In Bápatla 5 acres of old casuarina were cleared and the material cut, sold.

93. The deductions made from the cost of the Dugarazpatam, Kottapatam and Tamminapatam plantations in *Nellore* of Rs. 227, 117 and 115, respectively, represent amounts erroneously entered last year, as the disbursements were not actually made till April 1888. The deductions of areas are due to rectification to exclude areas which failed in the cyclone of November 1886 or were eaten off by caterpillars in 1887-88. The Survey Department have promised to survey these plantations this year, when we may, it is to be hoped, obtain quite correct figures and be enabled to revise the working plans.

94. The cuttings in the Nellore plantations were still confined to the windfall wood caused by the 1886 cyclone. The outturn was—

	TONS.
Dugarazpatam	503
Kottapatam	194
Royalpalem tope	13
Total ...	710

and the amount realized was Rs. 3,560. Additions were made of 80 acres in Dugarazpatam, 50 in Kottapatam and 20 in Tamminapatam.

95. The Conservator has read with interest the remarks made in para. 24 of last year's report on the damage done by insects to seedlings in the plantations, and he has inspected some of the areas so damaged. During the year under review there has been little complaint. He is inclined to agree with Mr. Peet in his opinion that casuarina cannot be grown indefinitely on the same land, but would remark that Mr. Vincent had already pointed this out, when he showed that after clear cuttings the seedlings replanted on the areas cut over were only successful in the immediate vicinity of the wells. Mr. Gamble is decidedly of opinion that it will now be well to endeavour to introduce an admixture of broad-leaved trees and transform the older parts of the plantation which have already been cut into mixed forests with casuarina around wells, and broad-leaved trees, such as Cashew, Korkapillay (*Pithecolobium dulce*) Kanuga, Nerudu, &c., between them. This year one or two compartments will be

taken in hand and results reported. He also considers it desirable to abandon the present system of clear cuttings in favor of group cuttings in which, instead of one year, several years are allowed for the regeneration of a compartment. In this way better coppice reproduction may be expected, and every endeavour will be made to secure a good advance growth by degrees so that the final cutting may not see the ground clear, but already provided with new growth. All this will necessitate the revision of the working plan which will be done directly the surveys are completed. For the purpose of the working plan the areas of Dugarazpatam, Kottapatam, Tamminapatam, Utukur and Varani which are all comparatively near together will form a working circle of about 2,000 acres. The Conservator is glad to be able to report that the plantations made since 1883 are all looking remarkably well where they were not damaged in the cyclone.

96. In the *Cuddapah* plantations the double entry under "Plantations" and "Cultural operations" has been done away with for the principal areas. These plantations, especially Uparapalle, Reddipalle and Pullampet, are large areas of very poor soil upon which in former years experiment was made to see how far forest trees could be successfully reared on such land. Considering the quality of the land, the experiments must be called successful. There are naturally vacancies, and the ground is still rather hard and bare in places. This is being remedied by sowings of "Tangedu" which are generally doing well, and by filling vacancies where possible. The Kodur plantation is chiefly a fine piece of red sanders unfortunately only too small in area. The Kamalapuram plantation is chiefly babul, but by degrees the sandy wastes included in the reserve on the banks of the Pennér and Papagni rivers are being planted up with palmyra, which is doing very well.

97. In the *Nilgiri* plantations, work has, for some time, been confined to the planting of vacant spaces with coniferous trees, or with indigenous shola plants. The planting of *Eucalyptus Globulus* or Acacias is confined merely to filling blanks in existing areas which there is no intention of extending.

98. The year was an exceptionally unfavorable one for planting works owing to the failure of the 1888 monsoon, so that much less planting work was done than had been intended, and some of the previous young plantings suffered a good deal. Still, the appearance of the conifer plantations (chiefly cypress and *Frenela* in Cairn Hill, *Cryptomeria* and *Frenela* in Aramby, and cypress and *Frenela* in Coonoor peak is good and shows that the staff have taken pains with their work.

99. The chief planting work of interest in Nílgiris is the mahogany plantation at Kullar at the foot of the Coonoor ghât. The 92 acres planted up in 1886 in compartments 1 to 5 of block IV in bamboo forest are looking well, the better plants being already 10 to 15 feet high in moist and 4 to 7 feet in dry localities. Block II, compartments 1, 2 and 3, being too dry for mahogany have been planted with Teak, Vengai and *Berrya*, all of which are doing well though a good deal hampered by the luxuriant growth of creepers, such as the climbing Acacias. The mahogany experiment is being continued, both with the ordinary mahogany and the new species (*Swietenia macrophylla*) which has the great advantage of a speedy growth and the capability of producing good seed in abundance, which the *Swietenia Mahogani* does not.

100. *Nurseries.*—The *Nilgiri* nurseries at Lovedale (7,000 feet), Sim's Park (5,500 feet) and Kullar (1,500 feet) are all in good order and well kept. A small nursery has also been made at Tippacadu (3,000 feet). That in Cairn Hill reserve will now be abandoned as no longer required.

101. In the *Cuddapah* district an excellent nursery is maintained at Ballipalle, chiefly for the sake of the edible dates, of which there is a fine supply of offsets of large size (received in 1886 from the Persian Gulf) to be used as propagating stock. Teak and other seedlings are also reared for filling vacancies in the adjoining working circle. There is also a useful nursery at Horsleykonda (4,500 feet) and a small one at the Peddagadi not far from Cuddapah.

102. In *Nellore* the nursery at Dugarazpatam is used for rearing edible dates, but of late the water-supply has got very brackish, and it will have to be transferred to a higher site.

103. In *Bellary* a nursery for edible date is maintained at Ramandrug in a good site, but the available area is very small. There is another small one at Hampi.

Cultural operations.

104. The Mojagodo plantation in *Ganjam* may now be omitted, for the trees have grown big and no further expenditure is necessary apart from the general management of the Gullery reserved forest. The average girth increment of the teak trees for the year was 2·13 inches. So, too, the areas in *Vizagapatam* and *Bellary*, which are not plantation works at all, but areas of naturally grown sál and babul, respectively, need no longer be entered.

105. The Conservator is sorry to find that the recommendations of his inspection note of March 1887, regarding the restocking of the Bezváda hill in *Kistna*, were not carried out. The expenditure entered is the pay of a watcher in charge who has to look after and water sundry mahogany, date and other seedlings at the foot of the hill.

106. In *Nellore* the planting of vacant spaces in the Stríharikóta forest with various trees has been continued. The work is purely experimental to ascertain what species can be easily grown and will thrive. It is too early to report results of value, but it may be mentioned that so far mahogany has done as well as anything, but requires too much special care. In future, however, it will be better to adhere to planting those species which are indigenous in the locality.

107. In *Cuddapah*, owing to press of other work, little was done but the maintenance of existing plantings and the work of sowing palmyras on the sandy banks of the Papagni and Pennér rivers, a work which has been very successful. In compartment 6 (*b*) of the Ballipalle working circle vacancies were filled with a large number of red sanders, teak, satin-wood and other seedlings, which, it is hoped, will do better than similar works did in previous years.

108. In *Nílgiris*, blanks at Lovedale were planted with *Bucklandia populnea* and shola trees. In the Ghât Reserve, a large blank of 12 acres has been filled up with *Casuarina suberosa* and shola plants which are all doing remarkably well, as are the similar blanks in Lamb's Rock forest and Lóngwood. The Sim's Park block in Coonoor is being utilized as an experimental garden, and plants of Eucalyptus of authentically named kinds have been planted in squares, as well as plants of *Bucklandia* and maple from Bengal, of *Podocarpus* and *Curtisia* from the Cape and other trees, and the whole is very carefully kept labelled.

109. The record of *experiments* will be found in an appendix A. The Conservator desires to say that he regrets that last year the Government should have expressed themselves as considering the results of artificial reproduction in the circle as discouraging, for he cannot agree in this opinion. The plantations of Nellore, Cuddapah and Nílgiris will bear comparison with any in India, due consideration being given to their circumstances. What is, and always will be, discouraging, is the result of desultory attempts to grow trees on a small scale often with an untrained staff, or, what is worse, an indifferent and careless staff (see para. 67 of the Annual Report for 1885-86). Such cases as those of the Nellore dates referred to in Appendix A and as where, lately, under instructions from the Board of Revenue, seeds of certain species of Eucalyptus were sent in small packets to all District Forest-officers for trial are among those which can be called discouraging, for in several districts there are no nurseries like those of the Nílgiris and Cuddapah, and temporary ones have to be made and a gardener entertained who is sure either to over-water or not water at all and the plants fail and the expenditure is wasted. In such cases distribution should, the Conservator submits, be made through him and the seeds sent to some one who has the necessary means and the knowledge required for making the experiment under the best possible conditions and with due economy, and expenditure should not be incurred on plantations or experiments unless there is a very clear prospect of success.

Topes.

110. Form 61 gives the number and area of topes in the circle. Considerable progress has been made during the year in the inspection, survey and record of these useful little plantations. The Conservator hopes, before long, to have ready in his office the records, maps and statement of condition of all topes in his circle. Such

records are nearly ready for Cuddapah, Kurnool and Kistna, Nellore and Anantapur are still somewhat backward. The Cuddapah topes are all being taken in hand for the repairs of the fences and wells and the filling of vacancies, and the same will be done in all districts in those topes which are worth maintenance.

111. The total expenditure on plantation work was Rs. 17,934 out of a sanctioned estimate of Rs. 21,200.

The amount is divided thus :—

	RS.
Plantations Form 60	14,208
Cultural operations Form 60	1,511
Topes Form 61	2,215
	17,934

(g) Works of Improvement.

112. Creepers were cut systematically in those compartments in the *Ganjam* forests in which fellings were undertaken. In *Nellore* the Narudu trees in which root cuttings had been made (see paragraph 87) were fenced at a cost of Rs. 13.

113. In *Cuddapah* about 9 acres of forest were cleared of creepers at Horsley-konda at a cost of Rs. 12-8-0. This is a very little piece of work, and more work of the kind should have been done.

114. The cleanings in the Sandúr forests of *Bellary* were continued, but not in a satisfactory way, nor fully according to the provisions of the working plan. The Conservator found that in each year the compartment mentioned in the working plan had been taken in hand, but instead of the whole area only a small corner done and the rest left untouched—a style of doing work of which he cannot approve. From *Anantapur* it is reported that creepers are being systematically cut by the protective staff. This is quite right and should be done elsewhere.

115. In *Nilgiris* alone has any really satisfactory work in the way of cleanings and creeper cutting been done. The following were the smaller works done :—

Forest.	Area.	Cost.	Revenue.	Surplus or deficit.
	ACS.	RS.	RS.	RS.
Sim's Park	20	45	47	+ 2
Town shola	11	85	97½	+ 12½
Longwood	33	129	52	— 77
Cairn Hill	23	115	131	+ 16

"*Loranthus*" parasites and creepers were cut in Sim's Park reserved forest at a net profit of Rs. 2. Similar work in "Town shola" was profitably carried out at a net profit of Rs. 1-2-0 per acre. In the Longwood reserved forest at Kótagiri 33 acres were cleaned at a cost of Rs. 3-15-0 per acre. There not being so good a demand for such small material at Kótagiri as at Coonoor, the material only sold for about Rs. 1-9-0 per acre, still even this is satisfactory, for in most districts no sale at all can be got for such material. In Cairn Hill reserved forest 23 acres were cleaned in block IV at a net profit of Rs. 16. These important cleaning works, the results of which are most beneficial to the forests, require to be considerably extended by degrees.

116. In the Barliyar working circle, in which improvement thinnings accompanied by creeper cuttings are being carried out, 60 acres were cleared of creepers at a cost of Rs. 390 in block V. At the same time 360 trees were thinned out at a cost of Rs. 252, the cut material either realizing or being valued at Rs. 465. Block II, compartment 1, was also thinned, 27 acres at a total cost of Rs. 223-8-0, the material cut being valued at Rs. 102-8-0. Both these areas are to have all blank spaces filled up with teak and mahogany during the current year.

117. In the Mudumalai leased forest, block II, compartment 3, 93 acres was thinned in improvement thinnings at a cost of Rs. 648, the material so far sold realizing Rs. 412. The chief produce was 1,443 teak, vengai and mutti poles.

118. In the Moyar reserved forest, dead-wood was cleared out to the extent of 11,424 cubic feet of teak and 383 cubic feet of vengai which together realized Rs. 1,846. This important work should be continued yearly over all such forests.

119. It will be seen that, with the exception of in the Nílgiris, the important works of cleaning and creeper cutting were not sufficiently attended to; but the chief cause of this is the heavy work in and the delay of settlement and demarcation and the weakness of the staff.

The total amount spent on " other works " A. VIII (*f*) was Rs. 4,987 chiefly in Cuddapah and Nílgiris, against a sanctioned estimate of Rs. 3,150. The chief expenditure was on temporary establishments.

Communication and Buildings—Roads.

120. In *Ganjam* 3½ miles of the cart-road from Kulada to Tilsingi was completed at a cost of Rs. 774, or an average of Rs. 221 per mile. The roads previously done are—

	Miles.		Rate.
		RS.	RS.
Gallery to Dodorolunda	6	2,280	380
Tilsingi to Chondorgiri	6	1,950	325

121. In *Godávari* the progress of road work is thus shown :—

Name of road.	Previously done.		Done in 1888-89.		Total.		Remarks.
	Length.	Cost.	Length.	Cost.	Length.	Cost.	
	MILES.	RS.	MILES.	RS.	MILES.	RS.	
Jirigupa-Ramdeopet	3¼	258	1¾	174	5	432	
Erguralpali-Bhandarguriam.	4⅝	198	4	444	8¾	642	
Kunavaram Tatlunka ..	2¼	422	5¾	971	8	1,393	
Total, Upper taluks ..	10¼	878	11½	1,589	21¾	2,467	or Rs. 113 per mile.
Peddamamidi-Timmapur ..	..	..	6	427	6	427	} or Rs. 64 per mile.
Timmalayapalem-Sudikonda.	..	..	4	214	4	214	
Devancheruvu inspection paths.	..	..	7½	260	7½	260	or Rs. 34 per mile.
Total, Lower taluks ..	..	..	17½	901	17½	901	

So that during the year 29 miles were done at a cost of Rs. 2,490, showing good progress. The roads in the upper taluks will still require some levelling to be made right.

122. In *Kistna* 8¼ miles of the repairs to the old cart-road from Bollapalle to Remedicherla through the Bollapalle reserved forest were completed at a cost of Rs. 200, the total spent being Rs. 212. In *Nellore* there were no works.

123. In *Cuddapah* the following work was done:—

Name of road.	Previously done.		Done in 1888-89.		Total.	
	Length.	Cost.	Length.	Cost.	Length.	Cost.
	MILES.	RS.	MILES.	RS.	MILES.	RS.
Ballipalle Hill road	13	2,096	2	560	15	2,656
Peddaralasagadu	2¼	754	3	630	5¼	1,384
Bokkakanama	2½	100	..	..	2½	100
Yerrapenta	6	770	..	..	6	770
Lankamalai	2¾	244	4	315	6¾	559
Rajimanipenta	3¼	1,231	2	656	5¼	1,887
Kavakona	7½	780	..	..	7½	780
Horsleykonda	4	200	..	..	4	200
Total ..	41¼	6,175	11	2,161	52¼	8,336

So that during the year 11 miles was done at a cost of Rs. 2,161, or Rs. 197 per mile. There were also 2 miles of Yerrapenta road done, but not paid for during the

year, so it is left to be entered in the report for 1889-90. The amount spent, which includes some small minor items, was Rs. 2,448.

124. In *Kurnool* the following work was done during the year :—

Road.	Length.	Cost.
	MILES.	RS.
Digumetta	3	355
Mahanandi	¼	44
Siddapuram-Velgode	1	160
Total ...	4¼	559

which is a small outturn of work for a district which requires forest roads so badly as Kurnool.

125. In *Bellary* no roads were made during the year. But it is useful to record here as for other districts the work done to date which is—

	MILES.	RS.
Ramandrug boundary road	10	755
North-east range	2¾	308
Total ...	12¾	1,063

The Conservator regrets to have noticed that even the repairs so necessary for the maintenance of these roads had not been carried out this year.

126. In *Anantapur* also was no work done during the year. The work to date has been—

	MILES.	RS.	
Muchukóta inspection roads	4½	170	1884-85.
Bukkapatnam-Narsimpalle	1½	455	1886-87.
Total ...	6	625	

These Muchukóta inspection roads were, the Conservator is glad to report, excellently laid out and made by Mr. Lodge ; and, as also the demarcation lines, are a model for what such works should be.

127. In *Nílgiris*, the Conservator regrets to say no information has come which can give, as for other districts, the cost of previously made roads, but the following work was done during the year—

	Reserved forest.	MILES.	RS.	
New roads ...	Coonoor peak	¼	126	Burrows' road—carts.
	Rallia	¼	139	Carting road.
	Kullar	1	30	Bridle path.
Metalling ...	Woodhouselee road ...	1½	805	of which Rs. 257 during the year.
	Aramby lower road ...	1¼	742	„ „ 313 „
	Cairn Hill, Jago's road ...	1	799	„ „ 370 „

in addition the Rallia road was repaired for Rs. 175, the Longwood road for Rs. 94, the Mudumalai-Benné road 19 miles, with 7 bridges for Rs. 466, and other small sums were spent in repairs to other roads of smaller importance. The total expenditure was Rs. 2,729.

128. The Conservator regrets that in some districts so little work should have been done in this important section. Good and convenient roads are an absolute necessity, not only as all important for improving the revenue as allowing purchasers to enter the forests more easily, but for inspection, for fire-protection and for the sub-division into compartments, and better arrangements should be made to utilize budget provisions. The total amount spent during the year on roads was Rs. 9,234, while the sanctioned estimate was Rs. 15,000 and revised estimate Rs. 12,000.

Tramways.

129. The following is extracted from the district report :—

" The Fowler's Portable Tramway now in use in this district is in good order and did good work. The tramway was used only in Kottapatam plantation. A total quantity of 2,995 tons of wood was conveyed to the basin at an aggregate cost of Rs. 411, which gives an average of Rs. 0-2-2 per ton. It must, however, be mentioned that the above average does not represent

the total cost of carriage from the plantations to the basin, but the amount spent this year, as a portion of the wood had been removed and stalked about half way between the plantation and the basin in the previous year. The distance between the two points is more than 2½ miles. Consequently the wood has to be removed by instalments, which necessarily increase the cost, as the line has to be broken up and relaid and wood loaded and unloaded each time. In spite of this disadvantage, the average cost of carriage per ton for the total distance is Annas 6 against Rs. 2-8-0, which hitherto had to be paid for carts."

A length of 5½ miles of line has been received since the close of the year for use in the fuel works of the Stríharikóta reserved forests.

130. The Conservator is anxious to utilize still more the great facilities which these lines give for economy in transport. A few small lengths in the Nílgiri working circles would be very valuable, and in Ganjam, Godávari and Kurnool the use of portable tramway lines would do very much to improve the extraction of material, the difficulty of which is now in the cost of labor and trouble of procuring carriage. With reference to the remarks in paragraph 15 of G.O., No. 153, of 5th March 1889, and the circular of the Inspector-General of Forests with the Government of India, No. 6 of May 2nd, 1889, the Conservator has only recently returned from leave, so he omits further remarks at present, but will pay attention to the subject during his tours this year. In our present state, with other works to distract the District Forest-officer's attention money might be wasted if tramways were set up, without very full previous consideration. But the Conservator has indicated a few places where tramways may be useful, and he would add that in his opinion it would be a great thing if one could be made from Gopalpore to Aska and Russellkonda in Ganjam. It would probably pay financially and would be invaluable to the Department. He suggests this as a famine work or a work for the Local Board.

131. *Canals.*—In the Kistna district a sum of Rs. 50 was spent in improving the creeks in the Bandar Fort reserve to facilitate the navigation of wood boats.

Houses.

132. *Ganjam.*—The following is the list of houses under the department at present:—

	Value. Rs.	
Russellkonda Inspection house (brick)	1,500	(old.)
Mojogodo Forest-house (brick)	500	
Rambha Forest-house (wood)	233	(not quite finished.)
Gullery Forest-house (stone in mud)	570	
Chondorgiri Forest-house (wood)	714	(not quite finished.)
Suradá Forest-house	350	
Gayagonda Range-house (brick)	523	(not quite finished.)
Tilsingi Forest-house (wood)	400	
Jagannathprásad Range-house (brick in chunam)...	525	(finished.)
Khariguda Forest-house (wood)	257	(finished.)
Berhampore Range-house (brick)	924	(bought in 1887-88.)

During the year Rs. 2,575 were spent, of which besides small items, Rs. 714 on Chondorgiri, Rs. 383 on Tilsingi, Rs. 232 on Rambha, Rs. 60 on Khariguda, Rs. 915 on Jagannathprásad and Gayagonda. There are also several smaller inspection sheds as well as Forest-guards' houses.

133. *Vizagapatam.*—The sum of Rs. 37 spent, was for two small sheds for the Ranger's use in the Pálkonda hills.

134. *Godávari.*—In Rékapalle there is one Forest-house, value Rs. 327; and a sum of Rs. 338 only was spent out of a sanctioned amount of Rs. 1,000. This is not as it should be. Houses are urgently wanted in the upper taluks and the District Forest-officer's own interest should have led him at least to utilize the budget provision.

135. *Kistna.*—The Kondavid bungalow was purchased for Rs. 507 during the year as a Forest rest-house. A sum of Rs. 1,307 was spent, the balance being chiefly on Forest-guards' houses and repairs to the Vinukonda range office.

136. *Nellore.*—The Udayágiri hill bungalow was purchased during the year for Rs. 553. The only other house of any importance is the Range-office at Stríharikóta.

137. *Cuddapah.*—The Ráyachóti range-house was completed during the year for Rs. 241, and produce depôts built at Kurapalle and Badvél for Rs. 250 and Rs. 185,

respectively. The Kódúr range-house, the Horsleykonda range-office and other buildings were repaired and wells dug, the total expenditure being Rs. 1,806 out of a sanctioned amount of Rs. 2,000.

The principal houses are—

	Value. Rs.
Kódúr	2,900
Horsleykonda	4,000
Sanipaya	1,900
Mogilipenta	1,000
Ballipalle	600

and there are range-houses at Kódúr, Rájampet, Sidhout, Badvél and Ráyachóti.

138. *Kurnool.*—The expenditure of the year was Rs. 5,023, of which Rs. 4,137 for the completion of the Head-quarters bungalow at Nandyál. The inspection houses at Rollapentà and Bainuti were greatly improved during the year by the addition of thatched roofs, doors and windows and out-houses at a cost of Rs. 174 and Rs. 78, respectively. The rest huts at Pecheruvu, Ullada and Chintal were repaired as well as several tannahdars' huts, five new huts being built in Sirvel taluk at a cost of Rs. 12-8-0. The chief houses are—

	Value. Rs.
Head-quarters, Nandyál	11,000
Rollapenta	1,200
Bainuti	1,200

139. *Bellary.*—A sum of Rs. 296 only was spent during the year, partly to finally complete the Donemalai house (total cost Rs. 634), partly on a tool shed in Sandúr, and on smaller works.

140. *Anantapur.*—Rs. 678 were spent, chiefly on materials for the Konapanainapalle house and the out-houses of the Head-quarters bungalow. As Rs. 2,000 was sanctioned in the budget, the outturn of work is not creditable.

141. *Nílgiris.*—Rs. 1,826 was spent during the year, the following being the chief works :—

	Rs.
Kótagiri range-house	220
Sim's Park seed-house	265
4 Guards' houses at Rs. 110	440
4 Do. do. ,, 80	320
Repairs to range and beat-houses and huts throughout the district ...	581
Total ...	1,826

The only inspection house is that at Kullár, value Rs. 1,000.

142. The total expenditure on buildings was Rs. 14,457, the sanctioned allotment having been Rs. 13,350. The chief item was the final payments for the Head-quarter's house at Nandyál. The Conservator proposes, next year, to give a complete list of buildings under the department in proper classification. There is not sufficient information this year either in the reports or in Form 73 (*b*).

143. *Boats.*—A staff boat was purchased during the year for the use of the District Forest-officer of Kistna for Rs. 2,000. Godávari has already been supplied, while in Nellore the District Forest-officer uses the larger of the boats employed for conveyance of minor produce to Madras. In Kistna the range officers of Bandar and Bápatla are provided with small boats for inspection work, and two boats have been constructed during the year at a cost of Rs. 230 each for the Strírharikóta and Plantation ranges.

144. *Elephants.*—Four elephants were purchased during the year for Rs. 6,000 from the Commissariat Department at Secunderabad. They reached Rékapalle in October 1888, and after a little delay in preparing harness, they were set to work and dragged 249 logs to Kanslúr and 87 to Chintúr, the average distance being 10 miles.

145. The two Nílgiri elephants are always getting sick, still they have been very useful and the eldest of the calves is now able to do light work, in collecting material cut to the road sides.

The expenditure on these animals is given in Form 74.

CHAPTER V.

YIELD AND WORKING.

Departmental Work.

146. Form 68 shows the number of trees felled by departmental agency during the year. The chief items were—

Teak	394	Nílgiris.
Sál	3,705	Ganjam.
Ironwood	138	Godávari.
Eucalyptus	10,816	Nílgiris.

the teak trees being chiefly cut in Benné reserved forest, where, too, were felled several vengai, blackwood and mutti; the sál in various forests in Gúmsur under the plans of operations; the ironwood in the Rékapalle forests and the Eucalyptus with some Acacia in the Nílgiri hill plantations. These last were for fuel, the rest for timber. The total number is 2,200 more than last year.

147. Form 69 shows the departmental collection of timber and other produce for the year. The amount collected was—

District.	Timber.	Fuel.	Bamboos.	Sandalwood.	Grass.	Minor produce.
	C. FT.	C. FT.	NO.	MDS.	MDS.	MDS.
Ganjam	*118,558	123,271	†12,620	..	..	41
Vizagapatam	144	..	..	..	..	..
Godávari	4,113	756	..	..	..	..
Kistna	3,262	10,050	..	..	..	..
Nellore	..	237,291	..	..	..	2,498
Cuddapah	97,546	13,776	7,461	..	..	1,174
Kurnool	2,281	1,239	..	..	..	970
Bellary	4,472	91,265	58,187	..	..	11
Anantapur	1,575	440	..	..	..	377
Nílgiris	28,490	390,372	..	1,714	..	3,467
Total	260,441	868,460	78,268	1,714	..	8,538

* Note.—Add transferred to forest depôts 37,226 cubic feet, total 155,784.
† Note.—Add do. do. 11,030 do. total 23,650.

148. Subjoined is a comparison of the yield for three years. The figures adopted for 1886-87 and 1887-88 are those given in the outturn statements submitted with this office letter No. 460 of 3rd May 1889 :—

——	1886-87.	1887-88.	1888-89.
Timber .. c. ft.	52,530	185,512	260,441
Fuel .. c. ft.	1,202,092	817,262	868,460
Bamboos .. No.	33,725	102,508	78,268
Minor produce .. Mds.	14,431	4,521	8,538
Sandalwood .. Mds.	2,000	1,665	1,714

149. Form No. 70 shows the receipt and disposal of timber, &c., in sale depôts. The amounts received and disposed of during the year come to—

District.	TIMBER.		FUEL.		BAMBOOS.		MINOR PRODUCE.	
	Received.	Disposed of.	Received.	Disposed of.	Received.	Disposed of.	Received.	Disposed of.
	C. FT.	C. FT.	C. FT.	C. FT.	NO.	NO.	MDS.	MDS.
Ganjam	32,556	18,532	3,533	2,465	..	..	40	807
Vizagapatam	144	144	..	..	..	..	..	..
Godávari	6	50	..	..	..	..	..	..
Nellore	..	..	222,959	108,528	..	..	535	615
Cuddapah	91,265	15	196	196	..	..	2,529	4,913
Kurnool	..	..	..	..	..	..	..	1,530
Bellary	..	..	6,451	4,830	..	..	..	lb. 20
Anantapur	..	2	..	..	..	..	277	2,000
Nílgiris	3,198	3,502	140,432	133,486	..	..	22	..
Total	127,169	22,245	373,571	249,505	..	..	3,403	9,866

The most noticeable item is the failure in Cuddapah to sell the red-sanders wood collections of the year. When the tenders were opened, it was found that there was only one, viz., for Rs. 13-8-0 per ton. The District Forest-officer, thinking that he ought to get at least Rs. 17 as last year, withheld sale. On this the Collector of Cuddapah, Mr. E. J. Sewell, has remarked :—

"When the matter came to my notice from the District-Forest officer's diary, I at once pointed out that the Budget revenue ought to be realized even if the wood, &c., had to be sold at a lower price than usual. I also think that a sale at a low price one year is often recouped in other years by the competition which it leads to. The profits made by the contractor who has bought cheap attract attention and lead others to come and compete at the next year's sales."

and the Conservator agrees in his remarks, and he considers that it is better and more dignified for the Government to sell its produce yearly at the market rate rather than to keep it back on account of a depression. Since then the price has gone still lower, and it is to be feared that we shall scarcely get more than Rs. 10 per ton. Had the red-sanders wood of this year been sold at Rs. 13-8-0, the gross revenue would have reached nearly 6½ lakhs. No doubt the District Forest-officer thought he was acting for the best, but it is as well to put on record that the Collector and Conservator consider that he ought to have accepted the tender. The short sales in Ganjam are due to the difficulty of obtaining a local market, and especially of selling sleepers since so many of the Indian Railways have now taken to using iron almost exclusively. There is, however, a stock of about 8,000 sleepers on hand; if these had been sold, the financial results of Ganjam would have been converted from a deficit into a surplus.

150. Subjoined is a statement of receipts in and sales from depôts for three years.

	1886-87.		1887-88.		1888-89.	
	Receipts.	Disposals.	Receipts.	Disposals.	Receipts.	Disposals.
Timber .. .. .. c. ft.	115,850	107,650	146,119	126,137	127,169	22,245
Fuel .. .. .. c. ft.	351,700	290,100	23,875	318,725	373,571	249,505
Bamboos .. .. .. No.	1,200	1,200	110	110	..	..
Minor produce .. .. .. Mds.	52,110	46,170	6,852	3,802	3,403	9,866

There is not much to say about these returns. The Conservator agrees with Mr. Horsfall, the Collector, in regretting the necessity for departmental operations in Ganjam for they are not very satisfactory; but if we cannot induce middlemen to come forward and purchase timber in the forests, we must, in order to make the annual yield available and the forests give their proper amount of revenue, undertake the work ourselves. So soon as it is possible, the system of departmental work should again stop, but there seems little prospect of this. The Conservator proposes to see what can be done by means of tramways to reduce the difficulties of transport and obviate the trouble it takes to induce sawyers to work in the forests, and in this connection begs to invite attention to his paragraph 130. The operations in Nellore and Nílgiris were satisfactory.

151. Form No. 71 shows the sales of timber first from depôt, secondly from the forests, thirdly and fourthly from drift and confiscated wood. The following abstract shows the sales of the year:—

Timber.

District.	Depôt.		Local.		Drift.		Confiscated.		Total.	
	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.
Ganjam	12,418	7,123	679	80	..	..	97	40	13,194	7,243
Vizagapatam	144	38	..	..	..	..	2,160	68	2,304	106
Godávari	50	28	..	..	15,467	8,227	1,680	75	17,197	8,330
Kistna	..	..	3,261	20	200	30	2,967	219	6,428	269
Nellore	..	..	..	..	..	..	280	38	280	38
Cuddapah	15	18	1,446	321	..	..	2,950	709	4,411	1,048
Kurnool	..	..	790	432	..	..	30,175	1,761	30,965	2,193
Bellary	..	..	4,472	687	..	..	240	13	4,712	700
Anantapur	..	..	1,575	81	..	..	62	10	1,637	91
Nílgiris	2,166	367	28,661	10,492	..	..	15	1	30,842	10,860
Total ..	14,793	7,574	40,884	12,113	15,667	8,257	40,626	2,934	111,970	30,878

so that the price obtained on the whole was a little over 5 annas per cubic foot solid.

Fuel.

District.	Depôt.		Local.		Drift.		Confiscated.		Total.	
	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.	C. FT.	RS.
Ganjam	2,462	142	13,345	30	..	..	196	19	16,003	191
Vizagapatam	..	..	..	..	..	..	603	14	603	14
Godavari	..	..	486	18	6	1	716	34	1,208	53
Kistna	..	..	9,990	39	..	..	490	29	10,480	68
Nellore	108,233	20,962	177,230	20,891	..	..	..	..	285,463	41,853
Cuddapah	196	21	11,452	116	..	..	1,492	70	13,140	207
Kurnool	..	..	260	44	..	..	3,955	159	4,215	203
Bellary	4,830	341	89,315	1,494	..	..	..	..	94,145	1,835
Anantapur	..	..	80	1	..	..	220	9	300	10
Nilgiris	117,318	11,281	125,914	6,271	..	..	114	9	243,346	17,561
Total ..	233,039	32,747	428,072	28,904	6	1	7,786	343	668,903	61,995

so that $1\frac{1}{2}$ annas per cubic foot stacked was realised. The chief departmental fuel works are in Nellore and Nilgiris. In the former there was a slight falling off in price owing to the large amount of stormwood still in the market. In the latter the rates do not vary according to the market but are fixed. Sales were good, and the works well carried out. The outturn of charcoal in the iron kiln was 16 per cent., which is an improvement on the 13 per cent. of last year. This iron kiln (Systéme Moreau) has now been in use for over 2 years with excellent results and the Conservator proposes to indent for more for use in other forests.

Bamboos.

District.	Local.		Confiscated.		Total.	
	NO.	RS.	NO.	RS.	NO.	RS.
Ganjam	..	..	276	1	276	1
Vizagapatam	..	..	1,174	20	1,174	20
Godávari	..	..	2,260	25	2,260	25
Kistna	..	..	709	4	709	4
Cuddapah	..	..	2,495	28	2,495	28
Kurnool	..	..	607	9	607	9
Bellary	58,187	1,615	..	..	58,187	1,615
Total ..	58,187	1,615	7,521	87	65,708	1,702

The Conservator would like to see departmental bamboo collection work, which is easy, extended, as the cutting by purchasers tends to damage the clumps.

Minor Produce.

District.	Depôt.		Local.		Confiscated.		Total.	
	MDS.	RS.	MDS.	RS.	MDS.	RS.	MDS.	RS.
Ganjam	58	4	41	4	40	5	139	13
Vizagapatam	..	..	..	..	4	10	4	10
Godávari	..	..	..	..	17	6	17	6
Kistna	..	..	..	..	127	5	127	5
Nellore	610	1,045	1,774	3,141	..	..	2,384	4,186
Cuddapah	2,523	1,201	190	109	186	6	2,899	1,316
Kurnool	..	..	166	99	75	9	241	108
Bellary	lb. 20	10	54	46	92	25	147	81
Anantapur	109	132	108	96	645	861	862	1,089
Nilgiris	..	..	3,158	2,542	..	..	3,158	2,542
Total ..	3,301	2,392	5,491	6,037	1,186	927	9,978	9,356

As usual the chief collections were in Nellore (where, however, they were less than usual this year) and in Nilgiris.

Sandalwood.

	Sold locally.	
	MDS.	RS.
Nilgiris	1,792	6,965

the rate obtained was Rs. 3-14-2 per maund which is a good average and compares well with Coimbatore average rates.

152. The following statement shows a comparison of the sales for the last three years :—

	1886-87.		1887-88.		1888-89.	
	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.
		Rs.		Rs.		Rs.
Timber .. .. c. ft.	12,750	44,226	128,287	47,280	111,970	30,878
Fuel .. .. c. ft.	787,975	78,837	510,825	54,883	668,903	61,995
Bamboos .. .. .. No.	34,925	932	10,208	2,406	65,708	1,702
Sandalwood .. .. .. Mds.	1,980	9,000	1,553	5,804	1,792	6,065
Minor produce .. .. Mds.	6,705	3,872	2,992	4,920	9,978	9,356

153. Form No. 73-A shows the difference in value between the stock on hand at the commencement and close of the year in

District.	On hand at commencement of the year.	On hand at close of the year.	Difference.
	Rs.	Rs.	Rs.
Ganjam	4,590	14,374	+ 9,784
Godávari	30	..	— 30
Nellore	5,969	18,363	+ 12,394
Cuddapah	9,550	23,997	+ 14,447
Kurnool	191	..	— 191
Bellary	69	42	— 27
Anantapur	2,272	380	— 1,892
Nílgiris	1,680	2,547	+ 867
Total ..	24,351	59,703	+ 35,352

The chief stock is of sleepers in Ganjam, of fuel in Nellore and of red-sanders wood in Cuddapah.

154. The following is the outturn statement for the year as called for by Government in G.O., No. 153, of 5th March 1889 :—

District.	Outturn in cubic feet, timber and fuel.					Outturn of minor produce in maunds.					Outturn of Bamboos in number.				
	By Government agency.	By private purchasers.	By drift and confiscated wood.	By free grants.	Total.	By Government agency.	By private purchasers.	By drift and confiscated wood.	By free grants.	Total.	By Government agency.	By private purchasers.	By drift and confiscated wood.	By free grants.	Total.
Ganjam ..	241,829	1,064,159	293	9,460	1,315,771	41	..	40	..	81	12,620	1,157,538	276	31,440	1,201,874
Vizagapatam	144	318,273	2,763	27,680	348,860	..	6,121	4	..	6,125	..	227,982	1,174	83,550	312,706
Godávari ..	4,869	597,214	17,869	558	620,510	..	163,066 * 145	17	..	163,228	..	2,008,932	2,260	..	2,011,192
Kistna ..	13,312	726,738	3,657	..	743,707	..	83,442	127	..	83,569	..	168,570	709	..	169,279
Nellore ..	237,291	79,670	280	3,900	321,141	2,498	..	..	..	2,498	..	..	..	..	..
Cuddapah ..	111,322	2,641,292	4,442	1,840	2,758,896	1,174	93,813 * 27,000	186	..	122,173	7,461	842,376	2,495	300	852,632
Kurnool ..	3,520	1,774,270	34,130	3,400	1,815,320	970	111,960	75	..	113,005	..	11,141	607	14,760	26,508
Bellary ..	95,737	321,792	240	480	418,249	11	2,035,221 * 25,553	92	..	2,060,877	58,187	5,274	..	..	63,461
Anantapur ..	2,015	84,773	282	1,947	89,017	377	366,264 * 4 392	635 * 10	..	371,678	..	20,076	..	..	20,076
Nílgiris ..	418,862	83,582	129	1,184	503,757	3,467 †1,714	140,438 * 94,482	..	..	240,101	..	230,543	..	..	230,543
Total ..	1,128,901	7,691,793	64,085	50,449	89,35,228	10,252	3,151,897	1,186	..	3,163,335	78,268	4,672,432	7,521	130,050	4,888,271

* Grass. † Sandalwood.

155. *Removal by purchasers.*—Form 72 gives the sales direct from the forests. The following abstract shows the comparison with last year :—

	1887-88.	1888-89.
	RS.	RS.
Ganjam	15,384	14,134
Vizagapatam	5,279	6,608
Godávari	63,265	64,998
Kistna	76,524	96,613
Nellore	44,207	28,146
Cuddapah	1,12,232	1,02,734
Kurnool	75,614	1,05,059
Bellary	23,605	36,180
Anantapur	18,522	28,695
Nílgiris	9,272	12,022
Total ...	4,43,904	4,95,189

showing an increase of over half a lakh. There was a considerable decrease in Nellore and Cuddapah and a small one in Ganjam, with a rise in all other districts, especially in Kurnool and Kistna, Bellary and Anantapur. Indeed, the rise of the revenue of these two last districts is quite the feature of the year. It is almost entirely due to the sales of tangedu bark. The rise in Kistna is due to larger grazing collections, and that in Kurnool to payment for railway fuel cut by the Bellary-Kistna State Railway. The amount paid was Rs. 20,441, which was calculated at Rs. 7 per acre on 2920·35 acres.

156. One of the features of the year, as already noticed, is the increase in the revenue from the bark of the 'tangedu' shrub (*Cassia auriculata*) the sales of which were—

	MAUNDS.	RS.
Vizagapatam	1,599	54
Godávari	5,244	509
Kistna	...	2,204
Nellore	...	3,451
Cuddapah	29,665	3,107
Kurnool	111,960	3,732
Bellary	109,168	8,266
Anantapur	138,900	16,990
Total ...	396,536	38.313

If we estimate 10 maunds per one rupee for Kistna and Nellore and for part payments in Anantapur we shall have a total outturn of about 500,000 maunds or about 5,500 tons and a revenue of Rs. 38,313. This is very good, but it may be doubted whether it will last. The Conservator has no doubt of the shrub lasting, but the markets are often capricious, and though apparently the Mysore tanners prefer 'tangedu' to other kinds of tan, yet in the English market it is considered quite an inferior material, giving (according to information supplied to the Conservator by Mr. Evans of Bristol) only 13½ per cent. of tannin against 17½ given by babúl bark, 19 by babúl pods, 20 to 40 by the barks of the wattles so extensively grown on the Nílgiris and 25 to 46 by the common myrabolams or gallnuts (*Terminalia chebula*).

157. It is difficult to estimate so nearly the amount of gallnuts sold, for in some districts the collections were departmental, in others the fruit was included in the general leases, and in one (Godávari) seigniorage was taken as it passed down the river. But so far as our returns go, the amount sold was—

		MAUNDS.	RS.
I (*e*).	Ganjam	57	3
	Cuddapah	2,486	1,149
	Anantapur	86	57
	Kurnool	21	8
	Nílgiris	2,821	1,769
II (*e*).	Godávari	2,360	232
	Total ...	7,831	3,218

In Cuddapah 7½ annas per maund was realized and in Nílgiris 10 annas.

158. The sales of minor forest produce generally have developed considerably and there is no doubt that they are still capable of much greater improvement. Of tamarinds, 53,349 maunds paid a royalty in Godávari of Rs. 3,335; but the Nellore collections have not yet recovered the cyclone.

159. The amroy sales gave a revenue of Rs. 38,690 chiefly in Cuddapah and Bellary. The Collector of Cuddapah (where Rs. 23,703 were collected) says that "this revenue is capable of great expansion. Inquiries made during the recent jamabandi have led me to the belief that the leases do not represent one-third of the actual value of the produce of the trees and topes leased." The Conservator is of opinion that the best way to improve this revenue is to begin by a stock-taking, but it is a little difficult to do this while other works are so heavy.

160. The sale of trees on "darkhast" lands, &c., &c., gave a revenue of Rs. 32,799 There seems room for a better system of valuation, as remarked by Mr. Peet last year, and this revenue would improve. There is a good deal of haphazard about the heads of service to which these collections are credited, sometimes to (*a*), (*b*), (*c*) or (*e*), probably due to classification according as the forest is timber or fuel yielding, bamboo or fruit tree land. The sales of babúl pods "Jolli" in Anantapur gave Rs. 2,346. Enough attention does not seem, however, to have been given to this source of revenue in other districts.

161. The comparison of the revenue under minor heads of service between this year and the last shows as follows

		1887-88	1888-89.
		RS.	RS.
II (*a*).	Timber	1,19,871	1,40,633
(*b*).	Fuel	1,01,263	1,08,303
(*c*).	Bamboos	44,370	51,059
(*d*).	Grazing and grass	59,773	77,459
(*e*).	Minor produce	1,18,627	1,17,735
	Total ...	4,43,904	4,95,189

showing a slight decrease in 'minor produce' probably due to sales of darkhast trees credited to other heads, and an improvement in all other heads, and especially in grazing.

Free Grants.

162. Appendix D shows the amount of material reported to have been given free during the year. The Conservator does not think that any analysis is of value, the return speaks for itself and he can only endorse the remarks about it made by the Acting Conservator last year in his paragraph 36. He has struck out the free grazing right on unreserved lands entered by the Kistna Collector's office at 40,000 rupees, because a similar right is given by the Forest rules in all districts. With regard to the two other Kistna entries, the Conservator considers that it was not the intention of Government that rights of the kind should be given away by Collectors in such wholesale way, but only here and there where they considered circumstances urgently needed it. So far as small concessions regularly granted go, the returns from other districts seem reliable.

Drift and Confiscated wood.

163. The sales of drift, waif and confiscated wood are shown in Form 71 (*b*). In Godávari, 12,968 cubic feet of teak and 2,499 cubic feet of miscellaneous timber were collected and sold for Rs. 8,227. The total amount of the collections under head III was Rs. 12,531 as against Rs. 9,328 last year showing a considerable improvement and pointing to a better collection of Godávari drift and better system of check of forest offences.

CHAPTER VI.

FINANCIAL RESULTS.

164. Form 64 gives the summary of district revenue and expenditure as follows :—

		RS.	RS.
Revenue		...	6,16,920
Expenditure A		2,54,298	
Do. B		2,20,244	
			4,74,542
	Surplus ...		1,42,378

showing a very good advance on the actuals of previous years, both in gross and net revenue, and a near approximation to the revised estimates which were—

		RS.	RS.
Revenue		...	5,98,000
Expenditure A		2,41,450	
Do. B		2,32,350	
			4,73,800
			1,24,200

the less amount expended being due to many officers being on leave during the year. The differences between the actuals and estimates need not be here gone into in detail as that will be done later on in submitting the budget for 1890-91.

165. The comparison of the revenue, expenditure and surplus of the last seven years is as follows :—

Year.	Revenue.	Expenditure.	Surplus.
	RS.	RS.	RS.
1883-84	4,13,333	3,02,452	1,10,881
1884-85	5,37,197	3,98,566	1,38,631
1885-86	5,46,282	4,01,817	1,44,465
1886-87	5,52,248	4,34,966	1,17,282
1887-88	5,64,723	4,53,794	1,10,929
1888-89	6,16,920	4,74,542	1,42,378

showing that the rise of *gross* revenue, which has been gradual, has increased its rate during the year and that the rise in *net* revenue is also improving.

166. Compared with last year the revenue under the different heads was—

		1887-88.	1888-89.
		RS.	RS.
I (*a*)		37,133	21,302
(*b*)		57,517	61,986
(*c*)		2,365	1,615
(*d*)		5,804	6,965
(*e*)		4,920	8,428
II (*a*)		1,19,871	1,40,633
(*b*)		1,01,263	1,08,303
(*c*)		44,370	51,059
(*d*)		59,773	77,459
(*e*)		1,18,627	1,17,735
III		9,328	12,531
IV		14	20
V		3,738	8,884
	Total ...	5,64,723	6,16,920

showing an increase under most items except departmental timber sales and more particularly in grazing dues. The decrease in departmental timber sales is chiefly due to the Cuddapah red sanders collections of the year not having been sold as explained in paragraph 149.

167. The comparison of revenue and expenditure of the districts is as follows :—

Districts.	Revenue.	Expenditure.	Surplus or deficit.
	Rs.	Rs.	Rs.
Direction	55	60,601	— 60,546
Ganjam	23,831	45,627	— 21,796
Vizagapatam	6,890	8,117	— 1,227
Godávari	76,590	42,880	+ 33,710
Kistna	98,264	42,195	+ 56,069
Nellore	74,466	74,106	+ 360
Cuddapah	1,06,886	59,777	+ 47,109
Kurnool	1,07,894	35,607	+ 72,287
Bellary	40,561	26,098	+ 14,463
Anantapur	30,382	17,835	+ 12,547
Nílgiris	51,101	61,699	— 10,598
Total ..	6,16,920	4,74,542	+ 1,42,378

It will be seen that omitting 'direction' there are deficits only in Ganjam, Vizagapatam and Nílgiris. So far as Nílgiris is concerned the deficit was expected to be larger, in Vizagapatam the amount is small and the expected deficit in Ganjam was explained in the revised estimate for 1888-89 given in the budget report of 1889-90. It is very satisfactory to note that the deficits expected in the revised estimates in Nellore, Bellary and Anantapur have been converted into a surplus in each district and that the surplus revenue of Kistna and Kurnool has been largely increased. On the other hand, the net revenue of Cuddapah has been much reduced from the revised estimates for reasons already explained. As a set-off, it must not be forgotten that we have sufficient sleepers on hand in Ganjam, to cover by their value more than the deficit and that the sale of the Cuddapah red sanders wood will go to improve the revenue of the current year. On the whole, it must be admitted that the results for the year 1888-89 have been good and that the forest revenue has a tendency to rise a little faster than in the last five years.

168. Form 65 shows the outstandings on account of contractors and disbursers during the year, the amount having been reduced from Rs. 39,681 to Rs. 11,624, almost all of which is merely in disburser's accounts. Form 66 shows the revenue outstandings amounting to Rs. 3,810 against Rs. 3,732 last year. The Conservator will be glad to see these outstandings reduced another year to nothing at all, for there is no necessity for having any revenue outstanding, except in very special cases. It is understood that the Ganjam amount was on account of timber sold, that in Kistna for balance of grazing sales, and that in Nílgiris for balance of price of timber purchased.

169. Form 67 gives the distribution of revenue and expenditure under the three heads of "Departmental timber works," "Other revenue," and "Improvement of forest." The ratios adopted were Vizagapatam 1, Bellary, Anantapur and Nílgiris 2 each, and the rest three, twenty-fifths. The deficit under "Timber operations" would have been a surplus had the Ganjam sleepers and the Cuddapah red sanders wood been sold. Considering the large amount of time devoted to forest settlement by the staff in Nellore and Cuddapah, it is probable that the proportion of establishment debited to these districts is rather too high.

170. Forms 73 (*a*) and 73 (*b*) show the comparison between the value of timber and plant respectively at the beginning and end of the year, so that the year's transactions give—

	Rs.
Net revenue	1,42,378
Outstanding revenue	3,810
Difference of value of timber 73(*a*)	35,352
Do. do of plant 73(*b*)	22,173
Total ...	2,03,713

which is the correct surplus to the credit of the department at the end of the year.

CHAPTER VII.

General Remarks.

171. There is not much to be said here, for the Conservator was away on furlough during the first nine months of the year. But he thinks it well to record his opinion that in spite of the great weakness of both superior staff and subordinate establishment, the condition of the work of the department is improving. When once the staff can be relieved of the heavy duties which devolve upon it in the work of settlement of reserved forests and be at liberty to devote attention entirely to protection, improvement and working, a great step will have been made. One has only to see how in districts in which, like Nílgiris, settlement work is nearly done, matters have improved, to long for the end of what may be called the "legal phase" of forest development and the commencement of what may be called the period of stock-taking, during which the working plans will have to be framed and protection more fully studied.

172. Mr. A. W. Lushington in Ganjam has worked with his usual energy and enthusiasm. In Godávari, Mr. Battie has worked very well, as has Mr. Homfray in Kistna. Mr. Brougham in Nellore has a difficult piece of work in the settlement which he is doing well and carefully. In spite of the little mistake about the red sanders wood referred to in paragraph 149, Mr. Lodge has done good work in Cuddapah, especially in demarcation. The district is a very heavy charge indeed for one officer and the forest blocks distributed over the whole area. In Kurnool Mr. P. M. Lushington, like his brother, has set to work with energy, and, in spite of inexperience, has done well.

173. Sub-Assistant Conservator Mr. T. M. Nallasawmy Naidu in Nílgiris has, as usual, done excellent work and deserves great credit for it. The work of Mr. Stafford, Sub-Assistant Conservator in Godávari, is reported to have been very unsatisfactory. Almost all the Forest Rangers have been reported to have done well, especially Mr. Ward, Mr. Newman, Mr. McLaughtin, R. Sundram Pillai, P. Ananda Row, and A. Eggia Sastri.

174. The Conservator desires again to recognize the good work done by his office staff.

175. The annual reports were not all very punctual, in spite of an early reminder about them from the Conservator. The Conservator regrets to say that some of them had many mistakes and omissions; some, like that from Kistna, were very meagre; but on the whole it is clear that most District Forest Officers took pains to make their reports better this year and give more precise information than previously. The returns are somewhat intricate, nevertheless, if good returns could be sent up from Cuddapah and Nellore, there is no reason why those from Godávari, Bellary and Nílgiris should have been so bad. The office staff in most districts is weak as the Collectors have frequently complained: until it can be improved and better men obtained, the Conservator and his office will have to go on spending nearly a month every year almost exclusively on the preparation of the annual report and its returns and write many letters calling for explanations and further information.

176. The health of the subordinate establishment has been better reported on this year, except from the South-East Wynaad and the Upper Godávari. The staff of officers suffered a good deal, necessitating most of them applying for leave after the close of the year. The Ganjam scarcity does not much affect the work of the forests.

177. *Service books* are, with very slight exceptions, all reported to have been properly kept up.

178. The Conservator desires to report that the arrangement of the Forest Museum in the Board's office is now nearly complete. The woods have all been carefully arranged and named and the collection of produce, seeds, &c., is fairly well illustrative of the resources of the Presidency. He is indebted to his head-clerk, V. Setu Row, for much care and pains taken with the museum. Mr. McArthy's services were also very useful in January 1889.

APPENDIX A.

EXPERIMENTS AND EXOTICS.

Arabian Date.

In *Ganjam* 10 lb. of seed was sown, of which about 50 per cent. germinated, the rest having been apparently eaten by rats. In *Godávari* 24 healthy seedlings were planted at Ramasaram and 36 at the rest-houses in Rékapalle.

In *Kistna* 970 three-years old plants were planted in the "Weld" plantation and 270 at Kanukolu. In *Nellore* there are now 719 promising plants, partly at Stríharikóta and partly at Dugarázpatam. In other Ranges, the experiment "proved an entire failure, due no doubt to the fact that the Range officers did not, owing to their extensive charges, devote that careful and constant supervision which the Stríharikota and Casuarina Plantation Foresters were able to do" (Collector's No. 1260 dated 10th July 1889).

In *Cuddapah* there were 536 offsets received in 1886; of these, 390 have lived and made fine strong plants, some 6 to 10 feet high, bearing numerous small offsets from which it is proposed to propagate, for in this way we are sure to have female plants. Of seedlings, 490 two-years old plants (1887) have been planted out in a piece of land adjoining the Ballipalle nursery and are doing well. Bazaar seeds sown in 1888 did not germinate; but imported seeds did and 399 plants are doing well as well as 70 plants at Kamalapuram.

In *Kurnool* we have about 50 plants (sown in September 1888) at Vepanegundla tope and a few in Cumbum and Yerramalais. Some seeds given to ryots have done well and good plants are being reared. In *Bellary* there are now about 550 good seedlings at the Rámandrug nursery. In *Nilgiris* we have about 500 strong and healthy seedlings at the Kullar nurseries. As remarked by the Government, the cultivation of the edible date, a most important introduction, "has now passed the experimental stage and may be conducted on an extensive scale." It will be seen that in all districts, except Vizagapatam and Anantapur, have successful experiments been made and the Conservator will arrange this year for the more extensive works which are required.

Eucalyptus.

In September 1888 seeds of the following five species of Eucalyptus were distributed by the Board of Revenue direct to Collectors or District Forest-officers for experiment, viz., *Eucalyptus robusta, citriodora, corymbosa, resinifera and tereticornis.* The following are the reports received from District Forest-officers regarding them:—

Ganjam.—"All germinated, but *robusta* and *citriodora* are the only two doing well, and of these we have plants (sown in November) of from 3 feet to 6 feet high. The other three kinds have all a tendency to creep along the ground and cropping seems no good."

Godávari.—"The five kinds put down in the Bendamurlanka casuarina plantations all germinated well but *resinifera* has died out altogether. Of *corymbosa* there are about 30 seedlings living but not very healthy of *citriodora* about 50 seedlings are alive and doing fairly well. Of *tereticornis* and *robusta* there are about 200 seedlings from 6 inches to 30 inches in height alive and doing very well."

Kistna.—"Seed of several species of Eucalyptus were sown, but although most germinated only the *E. citriodora* seedlings survived and these too died off when about 3 inches high."

Nellore.—"Some were tried in Stríharikóta in October 1888, but the experiment was an entire failure. I tried these sorts myself in the compound of my bungalow in the month of October. The seeds were put down on the 11th October and it took from 10 to 14 days to germinate, but in the course of a couple of weeks, the seedlings faded away although I shaded them from the sun and otherwise carefully attended them. A second trial was made and this also proved a failure. The seeds were sown on the 5th December and commenced to germinate by the 18th idem. By the end of January following, the whole of the seedlings died off though the weather was quite favorable. The Stríharikóta Forester has a portion of seed left which will be sown later on and results reported."

Cuddapah.—"Seeds sown 18th November 1888; seedlings broke soil on the following dates:—*corymbosa, tereticornis,* 27th November 1888; *citriodora, resinifera,* 1st December 1888; *robusta,* 3rd January 1889: *robusta* and *resinifera* poor and unhealthy looking; others doing well. Some of the same packets of seeds were sent to Badvél where not one germinated and some to Horsleykonda where only three wretched seedlings have come up."

Kurnool.—"A small nursery of 24 beds was formed in the compound of the Nandyál bungalow for experiments with the Eucalyptus sent by the Board of Revenue. A small quantity of all these seeds germinated, but on the commencement of the hot weather most of them dried up. The *citriodora* is, however, an exception to this as they germinated freely and produced some rapidly-growing plants, some of which are now two feet high. Attempts have been made to remove these, but owing to the heat they have dried. These species might be made to succeed if sown in the early rains and planted out in the second rains, being rapid growers. In the present case they were not sown till November 1888, and had therefore very little chance. A similar amount of Eucalyptus seeds were handed over to the Department by the Collector and a small nursery was made in the Yerramalais. These were not sown until December. These germinated slowly and with difficulty and having reached a height of about 2 inches the leaves dried up. The result of these experiments may therefore be said to be a failure partly attributable to the fact that the seeds were not distributed until an unfavorable part of the season had been reached and partly due to the unfitness of the climate. The District Forest-officer believes that *citriodora* might be made to grow, perhaps *corymbosa* if considerable care and trouble were taken over the experiment."

Nilgiris.—"A small quantity of each of the marginally-noted kinds of Eucalyptus seeds was received from the Board of Revenue intended for experiment as to whether they can be successfully grown on the plains. Half of the quantity was sown in Kullar and the other half in Moyar nurseries, which are the driest parts of this district. The following is the result :—

Eucalyptus resinifera.
Do. tereticornis.
Do. corymbosa.
Do. robusta.
Do. citriodora.

Name of seed.	When sown.		Number germinated.		Number basketted.		Number surviving.		Remarks.
	Kullar.	Moyar.	Kullar.	Moyar.	Kullar.	Moyar.	Kullar.	Moyar.	
Eucalyptus resinifera ..	23rd October 1888.	23rd October 1888.	..	103	..	..	..	103	The average height of the surviving plants is 9 inches.
Do. tereticornis ..			..	..	..	..	..	..	
Do. corymbosa ..			75	180	75	..	24	180	
Do. robusta ..			24	200	24	..	13	200	
Do. citriodora ..			18	213	18	..	7	203	

The plants in Kullar look very unhealthy."

The Conservator does not consider further comment than is made in his paragraph 109 necessary. He has no faith in the endeavour to acclimatize the various species of Eucalyptus in the Indian plains. Doubtless, and as these trials show, a few plants can be reared if treated very carefully, garden fashion, and at some expense, but that is not what the Forest Department aims at. What we require are trees that can be grown easily and cheaply and on poor soil (for we have very little good soil indeed and what there is is mostly already covered with fine indigenous timbers of far greater value than those of the Eucalypti) in dry and rocky places, and it is a pity to waste money and time on such experiments when they might be applied so much more advantageously to works which we know are likely to succeed and pay, directly or indirectly.

In the *Nilgiris*, however, the Conservator has been endeavouring to raise plants of the various species with authentic names and this year were planted the following in patches in Sim's Park Experimental Garden :—

	No.
Eucalyptus Gunnii	545
Do. botryoides	320
Do. crebra	1,157
Do. robusta	1,238
Do. corymbosa	406
Do. tereticornis	688

all being most carefully marked off and labelled. In this way we shall be able to make sure of names and be able to collect seed : at present though there are almost hundreds of species of the genus in cultivation on the Nílgiris, the Conservator (and, indeed, the Superintendent of the Botanical Garden) has found it extremely difficult to name them satisfactorily.

Mahogany.

The success of the mahogany plantations at Kullar is referred to in paragraph 99. In a few years time those who may ride up the old ghât road from Kullar to Barliyár will pass through a forest of mahogany for nearly the whole distance. In other districts mahogany

has not been successful, except so far as it has been treated garden fashion and carefully watered and tended. The Conservator proposes to make no more experiments in districts other than Nílgiris but in that district to continue planting wherever the soil and climate prove suitable. It may be stated here that the borer has now disappeared, it is said, through the application of the kerosine oil and soap. (See last year's report).

Maltese edible Cactus.—There are twelve plants at Stríharikóta (Nellore) and eighteen at Kamalapuram (Cuddapah), all in good condition.

Haloxylon Ammodendron.—Seed of this plant was sent by the Agri-Horticultural Society to Cuddapah and Kurnool; but did not germinate.

Coniferæ.—The Nílgiri planting works show conclusively that the best species for cultivation on the hills are—

Pinus longifolia ...	... ...	Himalaya.
Do. maritima ...	.. ...	S. Europe.
Do. insignis ...	... ...	California.
Frenela rhomboidea	... ...	Australia.
Cryptomeria japonica	... ...	Japan.
Cupressus macrocarpa	... ...	California.
Do. torulosa.	... ...	Himalaya.

The Conservator proposes also to try the Californian red wood (*Sequoia sempervirens*) and the European *Pinus Laricio* as likely to succeed. Seed of *Podocarpus elongatus*, which we received in 1885 from Mr. Hutchins at the Cape, has also done fairly well, so too has the Assam *Pinus kasya*. The Collector of Vizagapatam has tried to grow *Cryptomeria* on the Pálkonda hills, and there are about forty healthy plants. It is doubtful, however, if they can stand the hot weather.

Miscellaneous.—*Casuarina suberosa* has been very successfully grown on the Nílgiris and can be planted there as easily and cheaply as *Casuarina equisetifolia* in the vicinity of Madras or Bangalore. The Sikkim *Bucklandia populnea* is also a success in Nílgiris and more seed must be procured as it is a useful timber as well as being a very beautiful tree. The Darjeeling maples *Acer Campbellii*, *lævigatum* and *Hookeri* still grow, but cannot withstand the frost without protection. The same is the result with *Grevillea robusta*. *Aerocarpus fraxinifolius* has been found to grow wonderfully quickly at Anantapur and on Horsleykonda in Cuddapah, which is an interesting thing.

The report on experiments from Kistna ought to have given us better information about the "Weld" plantations; the reports from other districts are full and interesting. Nothing was done in Anantapur.

MADRAS,
29th June 1889.

(Signed) J. S. GAMBLE.

APPENDIX B.

STATEMENT showing the cost and yield up to March 31, 1889, of the Casuarina Plantations in Nellore and Gúdúr taluks.

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1889.	Cost per acre.	Yield up to 31st March 1888.	Approximate Return up to 31st March 1888.		Yield during 1888-89.				Approximate Return during 1888-89.		Grand Total.	
									Cutting storm wood.	Clean felling.						
							Rate.	Amount.	Tons.	Area.	Tons.	Total.	Rate.	Amount.	Total tons, 7 and 13.	Total amount, 9 and 15.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				RS.	RS.		RS.	RS.					RS.	RS.		RS.
	1 & Extra interplanted	45	1873 1874	10,132	225	1,540	6	9,240	293	..	..	293	5	1,475	1,835	10,715
	2	26	1874	6,908	265	589	..	3,534	1	..	..	1	..	5	590	3,539
	3	30	1875	6,449	215	754	..	4,524	..	..	..	..	..	..	754	4,524
	4	59	1880	3,397	57	544	..	3,264	5	..	..	5	..	25	549	3,289
Dugarázpatam ..	5	104	1881	4,416	42	678	..	4,068	180	..	..	180	..	900	858	4,968
	Numbers not yet given.	4	1882	..	..	29	..	174	4	..	..	4	..	20	33	194
		73	1883	3,585	49	15	..	90	14	..	..	14	..	70	29	160
		60	1884	2,526	42	9	..	54	..	..	..	..	..	..	9	54
		30	1885	1,438	48	..	..	..	..	..	..	..	..	..	..	..
		60	1886	413	7	..	..	..	..	..	..	..	..	..	..	..
		100	1887	911	9	..	..	..	..	..	..	..	..	..	..	..
		80	1888	573	7	..	..	..	..	..	..	..	..	..	..	..
Village tope, casuarina	..	4	1883	126	31	..	..	..	..	..	..	..	..	..	..	..
Ebrow's	..	19	Resumed by Government under tope rules.			504	..	3,024	..	..	..	..	..	..	504	3,024
Salt tope	..	4	..	..	..	35	..	210	..	..	..	..	..	..	35	210
6. Islands in backwater.	1880 1883	7	..	..	..	..	..	..	6	..	..	6	..	30	6	30
	1 & Interplanted.	24	1873 1874	6,005	250	1,154	..	6,924	..	..	..	..	..	..	1,154	6,924
	2	24	1874	6,536	272	884	..	5,304	..	..	..	..	..	..	884	5,304
	3	32	1875	6,170	139	1,496	..	8,976	..	..	..	..	..	..	1,496	8,976
	4	40	1880	3,082	77	198	..	1,188	45	..	..	45	..	225	243	1,413
	5	112	1881	4,408	39	956	..	5,736	117	..	..	117	..	585	1,073	6,321
Kottapatam ..	16	1882	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Numbers not yet given.	22	1883	1,046	48	1	..	6	32	..	..	32	..	160	33	166
		37	1884	1,591	43	..	..	..	..	..	..	..	..	..	..	..
		30	1885	986	33	..	..	..	..	..	..	..	..	..	..	..
		25	1886	217	8	..	..	..	..	..	..	..	..	..	..	..
		50	1887	1,125	22	..	..	..	..	..	..	..	..	..	..	..
		50	1888	280	6	..	..	..	..	..	..	..	..	..	..	..
Chattram tope ..	Resumed by Government under tope rules.					120	..	720	..	..	..	..	..	..	120	720
Pamangi tope ..	Do.					169	..	1,014	..	..	..	..	..	..	169	1,014
Royalpalem tope ..	..	..	..	..	..	..	..	..	13	..	..	13	..	65	13	65
	1 Interplanted.	41	1873 1874	12,143	196	769	..	4,614	..	..	..	..	..	..	769	4,614
	2	59	1874	9,576	162	1,008	..	6,048	..	..	..	..	..	..	1,008	6,048
	3	29	1875	7,878	272	587	..	3,522	..	..	..	..	..	..	587	3,522
	4	64	1880	3,808	59	140	..	840	..	..	..	..	..	..	140	840
Tamminapatam ..	5	139	1881	5,779	42	126	..	756	..	..	..	..	..	..	126	756
		81	1882	84	1	182	..	1,092	..	..	..	..	..	..	182	1,092
		68	1883	2,392	33	1	..	6	..	..	..	..	..	..	1	6
	Numbers not yet given.	30	1884	1,267	42	..	..	..	..	..	..	..	..	..	..	..
		10	1885	350	35	..	..	..	..	..	..	..	..	..	..	..
		4	1886	212	53	..	..	..	..	..	..	..	..	..	..	..
Around wells No. 1..																
Resumed by Government.	4	Under tope rules.				118	..	708	..	..	..	..	..	..	118	708
Around wells of Nos. 1, 2 and 3.	20	1887	746	37	..	..	..	..	..	..	..	..	..	..	..	..
	20	1888	165	8	..	..	..	..	..	..	..	..	..	..	..	..
	1	32	1875	7,527	232	94	5	470	..	..	..	..	..	..	94	470
Utukur	2	32	1880	3,927	122	22	..	120	..	..	..	..	..	..	22	120
	3	84	1881	4,728	56	8	..	40	..	..	..	..	..	..	8	40
	1 Interplanted.	40	1873 1874	10,339	258	58	..	290	..	..	..	..	..	..	58	290
	2	40	1874	8,911	223	115	..	575	..	..	..	..	..	..	115	575
Varani	3	40	1875	8,108	202	50	..	250	..	..	..	..	..	..	50	250
	4	40	1880	3,189	80	35	..	175	..	..	..	..	..	..	35	175
	5	80	1881	4,113	51	12	..	60	..	..	..	..	..	..	12	60
	1883	3	1881	121	40	..	..	..	..	..	..	..	..	..	..	..
Allipuram	1	18	1870	8,580	476	146	..	730	..	..	..	..	..	..	146	730
	2	36	1881	707	20	..	..	..	..	..	..	..	..	..	..	..
Iskapalle	..	6	1870	960	160	104	..	520	..	..	..	..	..	..	104	520
Total ..	..	2,187	..	1,77,930	77	13,250	..	78,866	710	..	..	710	..	3,560	13,962	82,426
Excess in reweighing.	..	..	..	..	..	..	..	..	11	..	..	11	..	..	..	..
	..	..	..	..	..	..	..	..	721	..	..	721	..	..	..	..

APPENDIX C.

STATEMENT showing the yield of several compartments felled and thinned during the year 1888-89 according to the plan of operations, Nilgiri district.

Range.	Working circle.	Block.	Compartment.	Area thinned or felled.	Age when thinned or felled.	Number of trees felled.	Firewood.	Branch wood.	Drag poles.	Total yield in cubic feet.	Number of belt trees.	Number of standards left.	Total trees.	Estimated quantity of standing trees in cubic feet.	Total yield in cubic feet.	Yield per acre in cubic feet.
							FIREWOOD.									
				ACS.			C. FT.	C. FT.	POLES.	C. FT.						
Coonoor.	Bleak house.	..	4	5½	13	19	100	953	580	580	1,633	59	146	205	1,350	2,983	542
		..	6	9	12	13	350	5,965	100	100	6,415	..	240	240	2,650½	9,065½	1,007
		..	7	9½	13	80	4,300	216	..	..	4,516	..	85	85	2,500	7,016	739
	Bandy Shola.	N. ..	8		23	214	9,600	1,833	..	..	11,433	15	96	111	2,150	13,583	3,395
		S. ..	21	3	23	196	8,900	1,714	..	..	10,614	30	71	101	1,500	12,114	3,727
	Coonoor Peak.	I.	3	7	17	1,314	54,250	4,883	..	..	62,133	275	215	490	8,550½	70,683½	10,097
			9	..	..	26	..	..	140	140	140	..	..	..	..	140	..
		II.	13	2	16	504	17,750	1,805	1,144	1,144	20,699	90	110	200	2,200½	22,899½	11,449
		III.	23	4	16	777	25,975	2,493	900	900	29,368	..	217	217	7,225¼	36,593¼	9,147
		IV.	37	5	16	1,515	48,950	2,912	..	..	51,862	..	217	217	7,225½	59,087½	11,818
	Rallia ..	..	..	6	16	1,322	33,350	2,062	..	..	35,412	..	271	271	2,900½	38,312½	6,966
Ootacamund.	Cairn Hill.	..	2	..	..	22	1,450	..	..	..	1,450	..	..	..	..	1,450	..
		..	3	4	15	2,027	45,400	2,621	..	..	48,021	174	..	174	2,900	50,921	12,730
	Aramby	I.	2	..	..	71	800	..	..	..	800	..	..	..	..	800	..
		IV.	2	4	15	1,053	19,550	1,196	..	..	20,746	..	..	..	..	20,746	5,532
			15	3¼	15	1,083	15,500	742	..	..	16,242	..	..	..	..	16,242	4,640
			14	2½	15	1,604	27,800	1,322	..	..	29,122	82	..	82	164	29,286	11,714
	Governor's Shola ..	Baikie.	2	..	..	191	4,000	..	..	..	4,000	..	..	..	..	4,000	..

APPENDIX D.

STATEMENT showing free grants during the year 1888-89.

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted.		
						Description.	Number or quantity.	Value.
							C. ft.	Rs. A. P.
Ganjam..	..	Suradá ..	Buguda ..	Inhabitants of Buguda village.	For rebuilding houses destroyed by fire.	Timber ..	1,640	15 6 0
							No.	
						Bamboos ..	9,840	10 4 0
						Nara ..	C. ft. 820	4 6 0
			Hukuma ..			Timber ..	3,600	33 12 0
							No.	
						Bamboos ..	21,600	22 8 0
							C. ft.	
						Nara ..	1,800	13 12 0
			Bondokodanda.			Timber	1,660	7 8 0
						Total ..	C. ft. 9,460 No. 31,440	107 8 0
							C. ft.	
Vizagapatam, Northern Division.	Deputy Tahsildar.	Pálkonda..	..	..	..	Timber	12,485	705 2 6
						Fuel	12,210	228 15 0
							No.	
						Bamboos	81,330	667 12 0
							C. ft.	
	Forest Ranger.	Do. ..	..	..	..	Timber	380	11 14 0
						Fuel	1,960	36 12 0
							No.	
						Bamboos	2,220	18 8 0
Vizagapatam Southern Division.	Principal Assistant Collector.	Sarvasiddhi.	Sekallipalem.	50 persons ..	Preparing jaggery.	Brushwood ..	C. ft. 645	32 4 0
						Total ..	C. ft. 27,680 No. 83,550	1,701 3 6
							C. ft.	
Godávari.	..	Delta ..	Coringa ..	Village Munsif of Coringa.	For consumption.	Fuel	3	0 2 0
			Vakatippa, &c., seven villages in number.	Village officers.	For constructing bridges over drains and for "sangadies" to cross Mandapetta canal.	Palmyra trees ..	390	39 0 0
						Tumma	135	9 0 0
						Date	30	0 6 0
						Total ..	558	48 8 0
Kistna..	Collector. Rules under section 26 of the Forest Act.	Bandar Bápatla	Coast forests.	Inhabitants.	For cattle fodder.	Right to take the leaves of the "Mada" (Avicennia tomentosa) free of payment.	..	2,000 0 0
		Bezwáda.	Kondapalli ..		As a relief to the neighbouring villagers.	Right to cut and remove grass free of charge so long as the forests are protected from fire.	..	3,000 0 0
			Bezwáda ..					
			Vellatur hills.					
		Guntúr.	Kondavid ..		Do.			
		Krósúr.	Bellamkonda.		Do.			
						Total ..	..	5,000 0 0

Statement showing free grants during the year 1888-89—*cont.*

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted. Description.	Number or quantity.	Value. Rs.	A.	P.
							C. ft.			
Nellore ..	Collector's order.	Kávali ..	Chennayapollem.	A. Anéadu and others.	For rebuilding houses destroyed by fire.	Palmyra trees ..	390	39	0	0
			Chinna Annalur and Turupupollem.	Nallapanainy Kondapa Naidu.		Do. do. ..	300	30	0	0
						Margosa do. ..	80	8	0	0
			Chinna Annalur and Kaligiri.	C. Soobba Naidu and K. Rungappa Naidu.		Palmyra do. ..	220	22	0	0
						Margosa do. ..	60	6	0	0
			Chinna Annalur and Gudanalloor.	Nallapanainy Akkappa Naidu.		Palmyra do. ..	40	4	0	0
						Margosa do. ..	20	2	0	0
			Chinna Annalur and Kaligiri.	K. Kondappa Naidu.		Palmyra do. ..	120	12	0	0
						Margosa do. ..	40	4	0	0
				K. Vengama Naidu.		Palmyra trees ..	80	8	0	0
						Margosa do. ..	20	2	0	0
			Chinna Annalur and Gadanalloor.	K. Kondappa Naidu.		Palmyra do. ..	100	10	0	0
						Margosa do. ..	40	4	0	0
				P. Audemma.		Palmyra do. ..	60	6	0	0
						Margosa do. ..	20	2	0	0
				S. Ramaswamy.		Palmyra do. ..	120	12	0	0
						Margosa do. ..	40	4	0	0
			Chinna Annalur.	Ryots of Chinna Annalur.		Palmyra do. ..	940	94	0	0
						Margosa do. ..	200	20	0	0
					For agricultural implements.	Tumma do. ..	150	2	8	0
		Nellore ..	Golagamoody.	G. Tiruvengalam.	For rebuilding houses destroyed by fire.	Palmyra do. ..	860	86	0	0
						Total ..	3,900	377	8	0
Cuddapah.	District Forest-officer's order.	Cuddapah ..	Gutur ..	Inhabitants.	For rebuilding houses destroyed by fire.		120	7	8	0
		Do. ..	Bavanarsipalle				180	11	4	0
		Proddutur ..	Somayajulapalle.				80	5	0	0
		Sidhout ..	Kothur ..				180	11	4	0
		Rájampet ..	Velagalacherla.			Third-class timber.	700	43	12	0
		Kadiri ..	Dhanayanicheruvu.				240	15	0	0
		Madanapalle.	Basinikonda ..				240	15	0	0
			Vempalle ..				100	6	4	0
			Do. ..				No.			
						Bamboos ..	300	3	2	0
						Total ..	C. ft. 1,840 No. 300	118	2	0
							C. ft.			
Kurnool ..	Collector.	Márkápur	Gurujepalle ..	Sheik Chinna Mavula and 5 others.	For rebuilding houses destroyed by fire.		240	15	0	0
			Gujjuvaripalle.	T. Venkiah and 7 others.			300	18	12	0
			Vemulakota ..	D. Kotadu and 11 others.		Third-class wood, rough.	240	15	0	0
		Nandyál ..	Gorakallu ..	K. Papugadu and others.			160	10	0	0
		Nandikótkur.	Ramapuram ..	G. Karnigadu and 69 others.			2,460	150	12	0
							No.			
						Bamboos	14,760	150	12	0
						Total ..	C. ft. 3,400 No. 14,760	360	4	0

Statement showing free grants during the year 1888-89—*cont.*

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted.		
						Description.	Number or quantity.	Value.
							C. ft.	Rs. A. P.
Bellary ..	Rule 13 of the rules framed under section 26 of the Madras Forest Act.	Bellary ..	Bondanakallu (Rayadrug taluk).	24 ryots, each 20 cubic feet.	For rebuilding houses destroyed by fire.	Third-class timber.	480	30 0 0
						Total ..	480	30 0 0
Anantapur	Collector's order.	Penukonda.	Somandepalle jungles.,	Three ryots of Somandepalle.	For rebuilding houses destroyed by fire.	Rafters	350	3 8 0
						Poles	12	
		Dharmavaram.	Kunathur ..	Ten ryots of Kunathur.		Rafters	400	25 0 0
			Madapur ..	Nine Madigas of Madapur.		Do.	600	10 0 0
						Poles	60	
							C. ft.	
		Hindupur..	Hulikera ..	Villagers of Hulikera.	For building houses on a new site as the old site was not prosperous.	Margosa trees ..	60	30 0 0
						Tella tumma trees	65	
						Nalla do. ..	360	
						Chigara trees ..	40	
						Total ..	1,947	68 8 0
Nilgiris ..	..	Ootacamund.	Village forests attached to each range.	Todas, Kottas and Badagas.	For building new houses.	Junglewood trees.	560	84 0 0
					For building craals.	Do. do.	140	21 0 0
					For building funeral sheds.	Do. do.	140	21 0 0
					For ploughing materials.	Do. sticks.	144	18 0 0
		Coonoor.			For building houses.	Do. trees.	60	9 0 0
					For building craals.	Do. do.	20	3 0 0
		Melur ..			For building houses.	Do. do.	20	3 0 0
					For building craals.	Do. do.	40	6 0 0
		Naduvatam.			For building houses.	Do. do.	40	6 0 0
		Kotagiri.			Do. ..	Do. do.	20	3 0 0
						Total ..	1,184	174 0 0
						Grand Total ..	C. ft. 50,449 No. 130,050	7,985 9 6

ANNUAL FORM No. 59-A.

Forest Department, Madras, Northern Circle.

(i) Area of Reserved Forests, 1888-89.

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ganjam.	Chokapad...	Dimrijholi	5,486	8½	...	...	5,486	8½	.....	
	Pondakhol.	Bondagocha ...	...	...	4,400	...	4,400	7	No. 253 of 13th Sept. 1888.	
	Bodoboro-singhi.	Malati	...	...	1,720	...	1,720	2½	No. 254 do.	
		Total ...	5,486	8½	6,120	...	11,606	18		
Vizaga-patam.	Sarvasiddhi.	Peddapalle	...	...	8,960	...	8,960	14	No. 226 of 2nd Aug. 1888.	
Godá-vari.	Coringa ...	Coringa	...	...	7,000	...	7,000	11	No. 122 of 27th April 1888.	
	Narsápúr ...	Narsápúr	114	...	...	...	114	...	.....	
		Total ...	114	...	7,000	...	7,114	11		
Kistna.	Bandar	Kara	...	...	21	...	21	...	No. 227 of 3rd Aug. 1888.	
		Vanudhuru	...	...	64	...	64	...	No. 311 of 6th Nov. 1888.	
		Bomminampadu ...	...	...	26	...	26	...	No 312 do.	
		Vémavarampadu ..	...	...	16	...	16	..	No. 313 do.	
		Allinagaram ...	...	...	125	...	125	...	No. 314 do.	
	Bezváda ...	Gavuravaram ...	...	...	81	...	81	...	No. 156 of 8th June 1888.	
	Krósúr ...	Konanki	...	...	3,600	...	3,600	6	No. 221 of 26th July 1888.	
	Palnád ...	Tummurukodu ...	...	...	24	...	24	...	No. 158 of 8th June 1888.	
	Rapatla	Lankavanidibba ...	4,480	7	...	...	4,480	7	.....	
		Kothapalem ...	3,840	6	...	...	3,840	6	.....	
		Total ...	8,320	13	3,957	...	12,277	19		
Nellore.	Ongolé.	Kottapatam ...	147	...	...	...	147	...	.....	
		Tummalapenta ...	100	...	...	...	100	...	.....	
		Kanuparti	520	1	...	...	520	1	.....	
		Ramapatam ...	60	...	...	...	60	...	.....	
	Kávali ...	Maddurpaud ...	...	...	2,012	...	2,012	3	No. 13 of 20th Dec. 1888.	
	Nellore ...	Iskapalle	...	...	23	...	23	...	No. 155 of 8th June 1888.	
	Gúdúr ...	Dugarazpatnam ...	23,800	37	...	*23,004	796	2	.....	* Rectification of area.
		Total ...	24,627	38	2,035	23,004	3,658	6		
Cudda-pah.	Kodúr	Kodúr Plantation ...	50	...	...	...	50	...	.....	
		Thanakonda ...	1,048	2	...	...	1,048	2	.....	
		Uparapalle	108	...	...	...	108	...	.....	
		Kodúr Hill	7,440	11½	...	...	7,440	11½	.....	
		Seshachellam ...	128,000	200	...	...	128,000	200	.....	
		Settikunta	8,960	14	...	...	8,960	14	.....	
	Rajampet	Salivendra	12,800	20	...	...	12,800	20	.....	
		Pullampet	426	½	...	...	426	½	.....	Includes Mittamidapalli.
		Reddipalle	1,284	2	...	...	1,284	2	.....	
		Vattalúr	2,880	4½	...	...	2,880	4½	.....	
	Sidhout	Kanamalapalle ..	4,435	7	...	...	4,435	7	.....	
		Malliamkonda ...	10,240	16	...	...	10,240	16	.....	
	Badvél	Kavalakuntla ...	9,920	15½	...	...	9,920	15½	.....	
		Ganugapenta ...	14,080	22	...	...	14,080	22	.....	
	Cuddapah...	Kamalapuram ...	485	1	...	...	485	1	.....	

Area of Reserved Forests, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area of 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Ráyachóti	Sibbyála	3,500	5½	...	...	3,500	5½	.....	
		Tsundupalle ...	3,000	4½	...	...	3,000	4½	.....	
		Gadikota	12,462	19½	...	...	12,462	19½	.....	
	Váyalpád ...	Yellutla	2,840	4½	...	...	2,840	4½	.....	
		Total ...	223,958	350	...	...	223,958	350		
Anantapur.	Gooty ...	Khojjapalle ...	367	½	...	...	367	½	.....	
	Anantapur.	Anantapur ...	131	...	...	...	131	...	.....	
	Penukonda.	Narsámpalle ...	1,280	2	...	...	1,280	2	.....	
		Kottakotá	5,120	8	...	...	5,120	8	.....	
	Hindupur ...	Somarajmalai ...	1,920	3	...	...	1,920	3	.....	
		Total ...	8,818	13½	...	...	8,818	13½		
Nílgiris.	Ootacamund.	Marliamund Plantation	17	...	...	...	17	...	.....	
		Aramby	430	½	...	...	430	½	.....	
		Marliamund ...	194	...	...	...	194	...	.....	
		Cairn Hill	559	1	...	...	559	1	.....	
		Brooklands	177	½	...	...	177	½	.....	
		Lovedale	296	½	...	...	296	½	.....	
		Craigmore	299	½	...	...	299	½	.....	
		Doddabetta	991	1½	...	...	991	1½	.....	
		Snowdon	1,053	2	...	...	1,053	2	.....	
		Jakuntha	370	½	* 3	...	373	½	.....	* Rectification of area.
		Muthanád	420	1	...	...	420	1	.....	
		Governor's Shola ...	2,694	4½	...	23	2,671	4½	.....	
		Pykara	1,309	2	...	...	1,309	2	.....	
		Sandynullah ...	818	1	...	...	818	1	.....	
		Kengodu	415	½	36	...	451	½	.....	Do.
		Karpakan	391	½	...	...	391	½	.....	
		Naduvatam Sholas...	1,501	2	...	...	1,501	2	.....	
		Vellingiri	643	1	...	...	643	1	.....	
		Kadcoopa	1,622	2½	...	...	1,622	2½	.....	
		Makurti	8,953	14	...	...	8,953	14	.....	
		Northernhay ...	3,998	6	...	...	3,998	6	.....	
	Naduvatam.	Naduvatam ...	4,834	8	...	1,423	3,411	5½	.....	Omission of Government Cinchonas of Plantation.
		Gadsbrook ...	230	1	...	...	230	1	.....	
		Cherambadi ...	1,983	3	...	...	1,983	3	.....	
		Ammankaval ...	563	1	...	...	563	1	.....	
		Kundahs	40,521	63	...	...	40,521	63	.....	
		Mikkeru	1,267	2	...	...	1,267	2	.....	
		Thia Shola	1,551	2½	...	...	1,551	2½	.....	
		Hiriyashige	2,175	3½	...	...	2,175	3½	.....	
		Ithalar	460	1	...	...	460	1	.....	
	Melúr	Devashola	215	½	...	...	215	½	.....	
		Balakola	935	1½	...	...	935	1½	.....	
		Athigarahatti ...	34	...	...	...	34	...	.....	
		Sutton Shola ...	52	...	...	...	52	...	.....	
		Commandu	993	1½	...	...	993	1½	.....	
		Pembroke	122	...	...	...	122	...	.....	
	Coonoor	Hulikal	6,411	10	...	...	6,411	10	.....	
		Honnathalai ...	320	½	...	...	320	½	.....	
		Rallia	189	½	...	...	189	½	.....	
		Black Bridge ...	390	½	...	...	390	½	.....	
		Coonoor Peak ...	540	½	...	...	540	½	.....	
		Lamb's Rock ...	708	1	...	...	708	1	.....	
		Tiger Hill	328	½	...	...	328	½	.....	
		Ghát Reserve ...	311	½	...	...	311	½	.....	
		Hill Grove	187	½	...	...	187	½	.....	
		Kullar	1,815	3	...	...	1,815	3	.....	
	Kótagiri ...	Kótagiri	563	1	...	...	563	1	.....	
	Sigúr	Kalhatti slopes ...	8,983	14	...	...	8,983	14	.....	
		Ebanad	571	1	...	...	571	1	.....	
	Mudumalai.	Benné	11,041	17	27	...	11,068	17	.....	Rectification of area.
		Moyar	13,580	21	...	...	13,580	21	.....	
		Total ...	129,022	202	66	1,446	127,642	199½		
		Grand Total ...	400,345	625	28,138	24,450	404,033	631		

(ii) Reserved Forests under other orders.

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Vizagapatam.	Palkonda.	Rupayi	...	...	300	...	300	½	Collector's order, dated 1st Aug. 1888.	
		Donabayi	...	...	20	...	20	...		
		Mekava	...	...	1,500	...	1,500	2⅓		
		Yegalada	...	...	250	...	250	⅓		
		Kusumuru	...	...	3,500	...	3,500	5½		
		Gumpayi	...	...	1,500	...	1,500	2⅓		
		Barna	...	...	4,500	...	4,500	7		
		Antikonda	...	...	3,000	...	3,000	4⅔		
		Samaralli	...	...	20	...	20	...		
		Sumbakonda ...	...	...	10	...	10	...		
		Total ...	...	...	14,600	...	14,600	23		

ANNUAL FORM No. 59-C.

Forest Department, Madras, Northern Circle.

Area of Reserved Lands, 1888-89.

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Ganjam.	Bodoborosinghi.	Kaliamba ... S	5,200	8	...	...	5,200	8		
		Teleki ... S	15,200	24	...	...	15,200	24		
		Baibali	21,920	34	...	...	21,920	34		
		Vinjagheri S	6,000	9	...	...	6,000	9		
		Malati	1,720	3	...	1,720	...	...		Transferred to Form No. 59A.
		Rogoda ... S	16,000	25	...	...	16,000	25		
	Chokapad ...	Darpangia ...	16,160	25	...	...	16,160	25		
		Rambha	9,300	15	...	...	9,300	15		
		Gullery	23,860	37	...	...	23,860	37		
		Koolada ... S	2,760	4	...	...	2,760	4		
	Gayagonda ...	Ambazara ...	32,000	50	...	...	32,000	50		
		Chodiapalli ...	960	2	...	...	960	2		
		Chondorgiri S	18,320	29	...	...	18,320	29		
		Gunduribadi ...	12,200	19	...	...	12,200	19		
		Gogodo	15,240	24	...	...	15,240	24	Notfn. No. 199 of 13th Oct. 1884.	
	Jagannathprasad.	Paichalia	13,760	22	...	...	13,760	22		
		Brahmanosai ...	8,080	13	...	...	8,080	13		
		Jaganathprasad S	26,200	41	...	...	26,200	41		
	Buguda ...	Panchbuthi ...	10,000	16	...	5,680	4,320	6		
		Kurcholi	10,400	16	...	4,880	5,520	8		Correction of area.
		Kriyamba	28,280	44	...	4,960	23,320	36		
		Sandusalya S	2,000	3	...	...	2,000	3		
		Bodochendana S	800	1	...	...	800	1		
		Vishnuchakram ...	4,860	8	...	...	4,860	8		
		Bondagocha ...	4,400	7	...	4,400	...	...		Transferred to Form No. 59A.
	Pondokol ...	Dhougam	2,400	4	...	...	2,400	4		
		Pipalapanka ...	7,700	12	...	...	7,700	12		
		Moondapitta ...	6,880	11	...	...	6,880	11		
		Hukuma	4,160	7	...	...	4,160	7		
		Rayigoda	6,700	11	...	...	6,700	11		
		Dabuki	...	...	1,450	...	1,450	2	Notfn. No. 54 of 26th Feb. 1889.	
	Berhampore...	Ramagodo ...	1,425	2	5,195	...	6,620	10	Notfn. No. 311 of 2nd Nov. 1885.	Correction of area.
		Bainamari ...	1,375	2	2,375	...	3,750	5½		
		South Mohiri. ...	2,600	4	1,130	...	3,730	5½		
		Bollibagada ...	261	1	...	...	261	1		
		Balakristnapuram.	164	...	...	...	164	...		
		Chatrapur ...	695	1	...	...	695	1		
		Dura	279	1	...	...	279	1		
		Golabondo ...	379		...	...	379			
		Podhora	760	1	...	...	760	1		
		Mushidipolem ...	238	...	...	...	238	...		
		Kusimi	625	1	...	...	625	1		
		Bendaliya	163	...	...	...	163	...		
		Mohoda	419	1	...	...	419	1	Fuel and Fodder Reserves, Bd.'s Pro. F. 285 of 20th May 1887	
		Mushiyakalli ...	522	1	...	...	522	1		
		Ankusopuram ..	138	...	...	...	138	...		
		Mohughora ...	1,697	2	...	...	1,697	2		
		Maharlapalli ...	924	2	...	...	924	2		
		Virakrishnachandrapuram ...	445	1	...	...	445	1		
		Godohill	225	...	...	...	225	...		
		Joronohill ...	1,002	2	...	...	1,002	2		
		West Batukamarada ...	179	...	...	...	179	...		
		Nimmapuram ...	697	1	...	...	697	1		
		Sikharapuram ...	260	1	...	...	260	1		
		Shapuram	142	...	...	...	142	...		
		Total ...	349,074	548	10,150	21,640	337,584	527		
Vizagapatam.	Sarvasiddhi ...	Peddapalli ...	5,000	8	...	5,000	...	...	Notfn. No. 226 of 2nd Aug. 1888.	Transferred to Form No. 59A.
		Total ...	5,000	8	...	5,000	...	...		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Godávari.	Peddapur ...	Ragoovapatnam ...	12,160	19	...	...	12,160	19	Notfn. No. 448 of 23rd Nov. 1886.	
		Sullanka	17,920	28	...	...	17,920	28		
		Anantaveram ...	8,320	13	...	...	8,320	13		
		Totapalle	3,520	5	...	...	3,520	5		
		Oligogola	20,800	32	...	...	20,800	32		
		Ramasaram ...	2,500	4	...	...	2,500	4	Notfn. No. 213 of 23rd May 1887.	
		Murari	...	...	2,000	...	2,000	3	Notfn. No. 134 of 9th May 1888.	
		Kovida	...	...	2,100	...	2,100	3½		
	Rajahmundry.	Devancheruvu S	5,000	8	...	...	5,000	8	Notfn. No. 308 of 26th July 1886.	
	Bhadráchalam	Mulkanapalli S	5,300	8	...	...	5,300	8	Notfn. No. 18 of 19th Dec. 1885.	
		Dumagudiem S	9,200	15	...	...	9,200	15		
		Arlaguram S	7,000	11	...	...	7,000	11		
		Tunkicheruvu S	13,800	22	...	...	13,800	22		
		Bhadráchalam S	12,700	20	...	...	12,700	20		
		Gogubaka ... S	2,000	3	...	...	2,000	3		
		Komanpalli S	4,400	7	...	...	4,400	7		
		Bandreo ... S	10,900	17	...	...	10,900	17		
		Golagupa ... S	8,500	13	...	...	8,500	13		
		Narakonda S	7,500	12	...	...	7,500	12		
		Pengha ... S	4,600	7	...	...	4,600	7		
		Upanapalli S	3,300	5	...	...	3,300	5		
		Tatlunka ... S	12,600	20	...	...	12,600	20		
		Ramchandram S	10,300	16	...	...	10,300	16		
		Rapak ... S	8,000	12	...	...	8,000	12		
		Sitarampuram S	3,000	5	...	...	3,000	5		
		Bhandarguriam S	7,100	11	...	...	7,100	11		
		Burkankota S	1,500	2	...	...	1,500	2		
		Kaler	6,500	10	...	...	6,500	10		
		Nialakota	2,700	4	...	...	2,700	4		
		Lakewaram ...	7,200	11	...	...	7,200	11		
		Kanslur	7,000	11	...	...	7,000	11		
		Mitapalli	13,000	20	...	...	13,000	20		
		Pulsmamri ...	6,800	11	...	...	6,800	11		
		Walsugri	8,700	14	...	...	8,700	14		
		Rekapalle hills ...	107,700	168	...	...	107,700	168		
		Marigura	45,500	71	...	...	45,500	71		
	Ellore ...	Velagalapalle ...	2,560	4	...	...	2,560	4	Notfn. No. 210 of 23rd May 1887.	
		Chintalapudi ...	2,560	4	...	...	2,560	4		
		Barrikonda ...	3,840	6	...	...	3,840	6		
		Erraguntapalle ...	9,600	15	...	...	9,600	15		
		Bandamcherla S	6,400	10	...	...	6,400	10		
		Tadikalapudi ...	2,560	4	...	...	2,560	4		
		Ramsingavaram S	1,920	3	...	...	1,920	3		
		Coringa	6,720	10½	...	6,720	..	...	.....	Transferred to Form No. 59A
	Delta ...	Upputer	10,000	15½	...	...	10,000	15½	Notfn. No. 291 of 29th July 1887.	
		Bendamurlanka S	371	1	...	...	371	1	Notfn. No. 416 of 10th Nov. 1886.	
		Total ...	453,551	708	4,100	6,720	450,931	704		
Kistna.	Bezváda ...	Kondapalle S*	35,222	54½	...	...	35,222	54½	Notfn. No. 143 of 30th July 1884.	* Part only settled.
		Kottur	7,593	12	...	...	7,593	12		
		Bezváda	960	1½	...	660	300	½		Alteration at settlement.
		Gunudhala S	580	1	...	180	400	½		
		Budavada ... S	5,120	8	...	470	4,650	7½		
		Jaggayapeta S	9,658	15	...	5,008	4,650	7½		
		Gavuravaram ...	80	...	...	80	...	...	.....	Transferred to Form No. 59A.
		Ibrampatnam ...	24	...	...	24	...	...	.....	Struck off Notfn. No. 16 of 21st Dec. 1888.
		Kondur	3,000	5	...	...	3,000	5	Notfn. No. 351 of 11th Oct. 1887.	
	Guntúr ...	Kondavid ... S	15,114	24	...	1,958	13,156	20½	Notfn. No. 143 of 30th July 1884.	
		Tadepalle ... S	2,800	4	...	500	2,300	3½		
		Kuragallu ... S	1,069	2	221	...	1,290	2		
		Nidamarru S*	581	1	...	...	581	1		* Part only settled.
		Narakodur ...	811	1	...	...	811	1		
		Karlapudi ... S	559	1	...	...	559	1		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Kistna *cont.*	Krósúr ...	Venkatayyapalem.	46,201	72	...	...	46,201	72	Notfn. No. 143 of 30th July 1884.	
		Bellamkonda ...	1,675	2½	...	...	1,675	2½		
		Nevalipur... ...	11,870	19	...	...	11,870	19		
		Konanki	3,600	5½	...	3,600	...	...	...	Transferred to Form No. 59A.
	Vinukonda ...	Bollapalli	37,712	59	...	...	37,712	59		
		Guttikonda ..	42,241	66	...	...	42,241	66		
		Kakirala	28,864	45	...	..	28,864	45		
	Pálnád ...	Madinapadu S	9,600	15	...	...	9,600	15	Notfn. No. 143 of 30th July 1884.	
		Pasvemula ...	22,782	36	...	...	22,782	36		
		Kollagunta ...	34,947	55	...	...	34,947	55		
		Gungulagunta S	24,514	38	...	...	24,514	38		
		Mutukur	31,408	49	10 *	...	31,418	49	* Notfn. No. 250 of 5th Sept. 1888.	
		Thumerakodu ...	23	...	...	23	...	...		Transferred to Form No. 59A.
	Bapatla ...	Muthayyapalem ...	9,842	15	...	...	9,842	15	Notfn. No. 143 of 30th July 1884.	
		Pandhillapalli S	164	...	...	2	162	...	Notfn. No. 38 of 26th Jan. 1885.	
		Wardarevu S	70	...	12	...	82	...		
		Anumillipeta ...	26	...	...	26	...	...	...	Erroneously given last year.
		Nayanapalli S	156	...	...	...	156	...	Notfn. No. 38 of 26th Jan. 1885.	
		Chirala	15	...	...	15	...	...	...	Erroneously given last year.
		Bapatla No. I ...	274	1	...	27	247	1	Notfn. No. 38 of 26th Jan. 1885.	
		Do. „ II S	840	1	...	...	840	1	Notfn. No. 350 of 11th Oct. 1887.	
		Karlapalem No. I. S	107	...	...	...	107	...	Notfn. No. 38 of 26th Jan. 1885.	
		Do. „ II. S	268	1	...	50	218	1		
		Vidhullapalle S	166	...	...	...	166	...		
		Kottapalem No. II. S	3,100	5	...	...	3,100	5	Notfn. No. 350 of 11th Oct. 1887.	
		Adavuladivi S	610	1	...	...	610	1		
		Dindi	1,000	2	...	400	600	1		
		Yellichettidibba S	7,680	12	...	3,040	4,640	7½	Notfn. No. 91 of 8th Feb. 1887.	
		Nachugunta S	11,520	18	...	2,880	8,640	14		
		Sorlagundi S	10,240	16	...	7,360	2,880	4		
		Gollapallem S	200	½	190	...	390	½	Notfn. No. 38 of 26th Jan. 1885.	
		Kodúr ... S	38	...	...	...	38	...		
		Palakayatippa S	4,480	7	...	1,600	2,880	4	Notfn. No. 91 of 8th Feb. 1887.	
		Bandar Fort S	8,000	12½	...	500	7,500	12		
	Bandar ...	Kara	20	...	...	20	...	..	...	Transferred to Form 59A.
		Lakshmipuram ...	560	1	...	560	...	...	...	Struck off. Notification No. 3 of 21st Mar. 1889.
		Bomminampadu ...	26	...	...	26	...	...	...	Transferred to Form 59A.
		Vanudhuru ...	64	...	...	64	...	...	...	
		Vemavarampadu ..	16	..	...	16	...	...	...	
		Allinagaram ...	125	...	...	125	...	...	...	
		Kanukolu ... S	600	1	67	...	667	1	Notfn. No. 38 of 26th Jan. 1885.	
		Total ...	438,815	686	500	29,214	410,101	641		
Nellore.	Ongole ...	Chimakurthi ...	7,500	12	...	...	7,500	12	Notfn. No. 185 of 13th Oct. 1883.	
		Ongole ... S	200	...	...	...	200	...	Notfn. No. 205 of 23rd Nov. 1883.	
	Kandukúr ...	Chagollu ... S	1,150	2	...	...	1,150	2	Notfn. No. 96 of 15th Feb. 1887.	
		Buddepudi S	640	1	...	...	640	1		
		Chakicherla S	320	½	...	...	320	½		
		Ramapatam S	1,280	2	...	...	1,280	2		
		Ravúr ... S	1,520	2	...	...	1,520	2		
		Mocherla, Chalamcherla	12,290	19	...	...	12,290	19		
		China Laterapi S	1,000	1½	...	...	1,000	1½		
		Gudlúr ... S	2,800	4½	...	...	2,800	4½		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nellore—*cont.*		Kávali	2,933	5	...	...	2,933	5	Board's Proceedings, No. 8216 F. 647 of 24th Nov. 1885.	
		Kavali	1,610	2½	...	...	1,610	2½		
		Rudrakota S	1,800	3	...		1,800	3		
		Maddurpad ...	1,000	2		1,000	...	...		Transferred to Form 59A and area rectified.
		Narayanapuram S	1,600	3	...		1,600	3		
		Zammalapalem ..	1,280	2	...	...	1,280	2		
		Zaladanki	900	1½	...	...	900	1½		
		Gattupalli	960	1½	...	...	960	1½		
		Kesavaram ...	1,800	3	...	...	1,800	3		
		Chira Annálúr ...	2,000	3	...	...	2,000	3		
		Tummalapenta ...	4,240	7	...	...	4,240	7	Notfn. No. 97 of 15th Feb. 1887.	
		Gollapalem ...	960	1½	...	...	960	1½		
		Talapalem ...	960	1½	...	...	960	1½		
	Kávali ...	Bitragunta ...	3,400	5	...	...	3,400	5		
		Nagalavaram ...	960	1½	...	...	960	1½		
		Zakkepalle-Gudúr S	800	1	...	...	800	1		
		Chamadala ...	850	1½	...	...	850	1½		
		Manubalpad ...	1,120	2	...	...	1,120	2		
		Dundigam ...	500	1	...	...	500	1		
		Dharmavaram S	200	½	...	...	200	½		
		Mungamore ...	5,000	7	* 4,151	...	94	...	Board's Proceedings, F. 371, of 1st July 1887.	*Rectification of area.
		Kadanutla ...					289	½		
		Talapalem ...					761	1		
		Kavali					1,511	2		
		Kolladinne ...					561	1		
		Musunur					1,014	1½		
		Anamadugu ...					941	1½		
		Chennayyapolliem.					1,161	2		
		Tummalapenta ...					2,476	4		
		Rudrakota ...					343	½		
		Kanigiri	1,500	2	...	...	1,500	2	Notfn. No. 205 of 23 Nov. 1883.	
	Kanigiri ...	Nandavanam ...	17,000	27	...	...	17,000	27	Notfn. No. 190 of 6th July 1885.	
		Vedullacheruvu ...	8,000	13	...	...	8,000	13		
		Udayagiri Durgam.	7,000	11	...	...	7,000	11	Notfn. No. 185 of 13th Oct. 1883.	
	Udayagiri ...	Yerrakondas ...	2,500	4	...	...	2,500	4	Notfn. No. 238 of 22nd Aug. 1885.	
		Udayagiri(East)and Appasamudram.	1,000	2	...	...	1,000	2	Notfn. No. 243 of 1st July 1887.	
	Atmakur and Udayagiri.	Udayagiri Veligondas.	23,000	36	...	...	23,000	36	Notfn. No. 164 of 10th June 1885.	
		Bommavaram ...	1,500	2	...	...	1,500	2	Notfn. No. 247 of 1st July 1887.	
		Telugurayapuram S	800	1	...	...	800	1	Notfn. No. 101 of 15th Feb. 1887.	
	Atmakur ...	Turpukambhampadu. S	960	1½	...	...	960	1½		
		Chejerla ... S	1,120	2	...	...	1,120	2		
		Shrisolanu S	1,040	2	...	...	1,040	2		
	Atmakur and Nellore.	Prabagiripatnam ...	1,000	2	...	...	1,000	2	Notfn. No. 247 of 1st July 1887.	
		Utukur-Varant Plantations. S	472	½	...	...	472	½	Notfn. No. 205 of 23rd Nov. 1883.	
		Iskapalle	24	...	...	24	...	...	...	Transferred to Form 59A.
		Marripad ... S	1,760	3	...	...	1,760	3	Notfn. No. 99. of 15th Feb. 1887.	
		Turimerla	640	1	...	...	640	1		
		Dagadarti	3,200	5	...	...	3,200	5		
		Kottapalli... ...	4,480	7	...	...	4,480	7		
	Nellore ...	Vavveru	4,160	6½	...	...	4,160	6½		
		Amanchcrla S	1,440	2	...	...	1,440	2		
		Dontali ... S	1,280	2	...	...	1,280	2		
		Chemudugunta S	320	½	...	...	320	½		
		Kakutur ... S	480	½	...	...	480	½		
		Nellore	2,560	4	...	...	2,560	4		
		Kondlapudi ...	1,440	2	...	...	1,440	2		
		Kandamur S	1,520	2½	...	...	1,520	2½		
		South Mopur S	1,000	1½	...	...	1,000	1½		
		Alipuram ... S	200	...	...	...	200	....	Notfn. No. 250 of 1st July 1887.	

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nellore—*cont.*	Gúdúr ...	Sriharikot and its outliers.	35,710	56	...	...	35,710	56	Notfn. No. 185 of 13th Oct. 1883.	
		Kottapatam Plantation.	385	1	...	...	385	1	Notfn. No. 205 of 23rd Nov. 1883.	
		Tamminapatnam Plantation. S	485	1	...	...	485	1		
		Yellasari	2,080	3	...	...	2,080	3		
		Velliped ... S	720	1	...	...	720	1		
		Ipuru	450	1	...	...	450	1		
		Tamminapatnam, W.	800	1	...	...	800	1		
		Momidi	2,040	3	...	...	2,040	3		
		Aukulapatur ...	310	½	...	...	310	½		
		Pidatalapudi S	800	1	...	...	800	1		
		Kadived ... S	880	1	...	...	880	1		
		Vadur	720	1	...	...	720	1		
		Nellaballi ... S	320	½	...	...	320	½	Notfn. No. 98 of 15th Feb. 1887.	
		Chillakur ... * S	480	½	...	...	480	½		
		Gudur ... S	2,400	4	...	...	2,400	4		
		Vendodu ... S	700	1	...	...	700	1		
		Vedicherla ...	700	1	...	...	700	1		
		Vindur ... S	300	½	...	...	300	½		
		Madamanur ...	400	⅔	...	...	400	⅔		
		Idagali ... S	480	1	...	...	480	1		
		Sarvepalli ... S	2,880	4½	...	...	2,880	4½		
		Kanupur ... * S	3,200	5	...	...	3,200	5		* Part only settled.
		Cherukumudi S	640	1	...	...	640	1		
		Kottapatam ...	2,500	4	...	...	2,500	4		
	Rapúr ...	Turpupundla ...	960	1½	...	...	960	1½		
		Sydapuram ...	2,080	3	...	...	2,080	3		
		Chaganam ...	2,720	4	...	...	2,720	4		
		Utukur	640	1	...	...	640	1		
		Turimerla ...	640	1	...	...	640	1		
		Tummalatalpur ...	3,680	6	...	...	3,680	6		
		Marlapudi ...	4,480	7	...	...	4,480	7		
		Pategunta ...	1,600	2½	...	...	1,600	2½		
		Paluru	400	1	...	...	400	1		
		Chikavolu ...	1,120	2	...	...	1,120	2		
		Cherlopalli ...	3,360	5	...	...	3,360	5		
		Potukonda ...	2,240	3½	...	...	2,240	3½		
		Guttikonda ...	160	...	...	...	160	...		
		Marellakonda ...	520	1	...	...	520	1		
		Veminabhi ...	2,080	3	...	...	2,080	3	Notfn. No. 100 of 15th Feb. 1887.	
		Nellapalli ...	1,840	3	...	...	1,840	3		
		Kakerlakonda ...	3,680	6	...	...	3,680	6		
		Yerragondas ...	17,000	26½	...	...	17,000	26½		
		Vavintaparti ...	1,280	2	...	...	1,280	2		
		Kummaragunta ...	480	1	...	...	480	1		
		Pulikollu	640	1	...	...	640	1		
		Mogallur	720	1	...	...	720	1		
		Duggunta	960	1½	...	...	960	1½		
		Podalakur ...	1,920	3	...	...	1,920	3		
		Birdavolu	2,400	4	...	...	2,400	4		
		Vadlapudi ...	2,400	4	...	...	2,400	4		
		Marupur	3,680	6	...	...	3,680	6		
		Toderu	800	1	...	...	800	1		
		Nernur	2,400	4	...	...	2,400	4		
		Chittaluru ...	480	1	...	...	480	1		
		Ayyagaripalem ...	320	½	...	...	320	½		
		Griddalur	500	1	...	...	500	1	Notfn. No. 506 of 5th July 1887.	
	Rapúr and Atmakur.	Rapur Veligondas S	27,000	42	...	...	27,000	42	Notfn. No. 164 of 10th June 1885.	
		Total ...	310,529	488	4,151	1,024	313,656	493		
Cuddapah.	Kódúr ...	Settikunta	960	1½	...	...	960	1½	Collr.'s notice of 7th March 1885.	Left reserved land after settlement.
		Cheyavaram S	4,480	7	...	...	4,480	7	Notfn. No. 304 of 24th July 1886.	
		Kodur	2,160	3½	...	...	2,160	3½	Collr.'s notice of 7th March 1885.	Left reserved land after settlement.

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Kódúr—*cont.*	Gotimanikona S	3,840	6	...	...	3,840	6	Notfn. No. 304 of 24th July 1886.	
		Yerraguntlakota ...	6,400	10	...	...	6,400	10	Collr.'s notice of 7th March 1885.	
		Avalapenta S	960	1½	...	...	960	1½	Notfn. No. 304 of 24th July 1886.	
		Mushtiyern S	4,480	7	...	...	4,480	7		
		Tippayapalli S	960	2	...	...	960	2		
		Kodivengamabavi ...	2,400	4	...	...	2,400	4		
		Marriutla	6,400	10	...	...	6,400	10		
	Kódúr and Rajampet.	Seshachellam and Rollamadugu.	3,840	6	...	...	3,840	6	Collr.'s notice of 6th March 1884.	Left reserved land after settlement.
	Rájampet ...	Chitvel ... S	10,240	16	...	...	10,240	16		
		Ananthasamudram .	10,240	16	...	...	10,240	16	Collr.'s notice of 7th March 1885.	
		Sanipaya ghaut ...	3,200	5	...	...	3,200	5		
		Badugantapalle S	3,520	5½	...	...	3,520	5½	Notfn. No. 304 of 24th July 1886.	
	Rájampet and Ráyachóti.	Gadikota	3,538	6	...	...	3,538	6	Collr.'s notice of 6th March 1884.	
		Yerrakonda S	8,320	13	...	...	8,320	13	Notfn. No. 304 of 24th July 1886.	
	Sidhout, Rájampet and Ráyachóti.	Cheyer ... S	11,360	18	...	...	11,360	18	Do. do.	
	Rájampet and Sidhout.	Kanakalakonda S	6,400	10	...	...	6,400	10	Notfn. No. 54 of 14th March 1884.	
		Patur ... S	7,680	12	...	...	7,680	12		
		Kokaletikanama S	14,420	22½	...	...	14,420	22½	Notfn. No. 304 of 24th July 1886.	
		Kothur ... S	22,720	35½	...	...	22,720	35½		
	Sidhout ...	Malliamkonda addition. S	1,280	2	...	...	1,280	2	Notfn. No. 306 of 24th July 1886.	
		Konarazupalle S	9,600	15	...	...	9,600	15	Notfn. No. 54 of 14th March 1884.	
		Turupukonda ...	30,080	47	...	...	30,080	47	Notfn. No. 306 of 24th July 1886.	
		Ippakanama ...	1,600	2½	...	...	1,600	2½	Collr's notice of 7th March 1885.	
	Badvél and Sidhout.	Ramapuram S	7,680	12	...	...	7,680	12	Notfn. No. 54 of 14th March 1884.	
	Badvél ...	Kavalakuntla ...	1,600	2½	...	...	1,600	2½	Notfn No. 54 of 14th March 1884.	Left reserved land after settlement.
		Gopavaram S	13,440	21	...	...	13,440	21		
		Kottakota ... S	38,400	60	...	...	38,400	60		
		Kalasapad	6,400	10	...	...	6,400	10	Notfn. No. 306 of 24th July 1886.	
		Sancherla ... S	5,760	9	...	...	5,760	9		
		Tsallagirigulla ...	1,280	2	...	...	1,280	2	Collr's. notcie of 17th March 1885	
		Badvél	1,920	3	...	...	1,920	3		
	Cuddapah, Badvél and Sidhout.	Lankamalai S	112,640	176	...	...	112,640	176		
	Cuddapah and Sidhout.	Kanamalapalle ...	5,255	8	...	...	5,255	8	Notfn. No. 54 of 14th March 1884.	
	Badvél and Proddutur.	Dassapalle S	66,560	104	...	...	66,560	104		
		Kanchelamoram S	8,960	14	...	...	8,960	14		
	Cuddapah ...	Ganganapalle S	57,600	90	...	...	57,600	90	Collr.'s notice of 3rd March 1885.	
		Chelakampalle ...	9,600	15	...	...	9,600	15		
		Kommaddi S	1,600	2½	...	...	1,600	2½		
		Tummalur S	3,200	5	...	...	3,200	5		
		Gonamakalapalle S	1,280	2	...	...	1,280	2		
	Proddutur and Pulivendla.	Bhanakotamala S	13,600	20	...	...	13,600	20		
		Mallela .. S	5,120	8	...	...	5,120	8		
	Proddutur ...	Kondasankesula S	4,480	7	...	...	4,480	7		
		Dabbudapalle S	3,280	5	...	...	3,280	5		
		Dhodiyam ... S	2,720	4	...	...	2,720	4	Notfn. No. 304 of 24th July 1886.	
		Malamidikambaladinne. S	3,440	5	...	...	3,440	5		
		Penner ... S	640	1	...	...	640	1		
		Gandikota ... S	9,920	15½	...	...	9,920	15½		
		Yamavaram S	1,600	2½	...	...	1,600	2½		
		Kosinepalle S	7,040	11	...	...	7,040	11		
		Nidujubi ... S	2,880	4½	...	...	2,880	4½		
		Kondapuram S	3,840	6	...	...	3,840	6		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Cuddapah—*cont.*	Cuddapah and Ráyachóti.	Idupalayaya S	28,160	44	...	...	28,160	44	Notfn. of 11th June 1883.	
		Redlacheruvu S	5,120	8	...	...	5,120	8	Notfn. No. 304 of 24th July 1886.	
	Cuddapah and Sidhout.	Palkonda ... S	81,920	128	...	...	81,920	128	Notfn. of 11th June 1883.	
	Ráyachoti ...	Madhavaram ...	5,120	8	780	...	5,900	8¼	Notfn. No. 54 of 14th March 1884.	
		Vandadi hills ...	3,200	5	200	...	3,400	5½		
		Brahmanayerragudi	7,680	12	...	...	7,680	12	Collrs.'s notice of 7th March 1885.	
		Hassanapuram ...	23,240	36	...	...	23,040	36		
		Mudumpad slopes...	5,760	9	...	...	5,760	9	Notfn. No. 306 of 24th July 1886.	
		Wongimalla S	10,880	17	...	...	10,880	17		
	Ráyachóti and Váyalpád.	Urukonda	8,960	14	...	...	8,960	14		
	Kadiri and Pulivendla.	Rekkalakonda ...	6,400	10	...	...	6,400	10	Notfn. No. 54 of 14th March 1884.	
		Gorivikanama ...	28,800	45	...	...	28,800	45		
		Dorigallu	30,720	48	...	...	30,720	48		
		Ishwaramala ...	15,360	24	...	...	15,360	24	Do. do.	
		Kokanti	2,000	3	...	...	2,000	3		
		Kadiri	10,240	16	...	...	10,240	16		
		Vellichelamalla ...	3,200	5	...	...	3,200	5	Notfn. No. 305 of 24th July 1886.	
		Thirumaladevara-konda.	9,600	15	...	...	9,600	15	Notfn. No. 54 of 14th March 1884	
		Nigadi	19,640	31	...	...	19,640	31	Notfn. No. 305 of 24th July 1886.	
	Kadiri ...	Kukkarazukonda ...	5,120	8	...	...	5,120	8	Notfn. No 54 of 14th March 1884.	
		Tumala	25,600	40	...	...	25,600	40		
		Malakavemala ...	1,920	3	...	...	1,920	3		
		Tummalamala ...	6,400	10	...	...	6,400	10		
		Kondasamerla ...	3,200	5	...	...	3,200	5		
		Sanarazumala, East	1,280	2	...	...	1,280	2		
		Godurelagala ...	1,920	3	...	...	1,920	3	Notfn. No. 305 of 24th July 1886.	
		Mudupalajuvi ...	1,440	2	...	...	1,440	2		
	Madanapalle...	Tavalam	5,120	8	...	...	5,120	8	Notfn. No. 54 of 14th March 1884.	Avalakonda, Mudimadugu and Horsley-konda. Mallaiakonda and Yaddala-varipalle. Errakasikonda abandoned.
		Madhanikonda ...	1,920	3	...	170	1,750	3		
		Pentzapad ...	1,920	4	950	...	2,870	4½		
		Horsleykonda ...	23,070	36	800	...	23,870	37½		
		Mothugamala ...	2,560	4	...	...	2,560	4		
		Mallaiakonda ...	6,680	10½	8,343	...	15,023	23½		
		Nallakonda ...	3,840	6	...	640	3,200	5		
		Pulikonda	2,560	4	...	...	2,560	4		
		Potapolu	640	1	...	276	364	1		
		Kukarazupalle ...	2,560	4	...	900	1,660	3	Notfn. No. 305 of 24th July 1886.	
	Váyalpád and Madanapalle.	Tarikonda	6,400	10	...	...	6,400	10		
		Nurukupalakonda...	5,120	8	...	...	5,120	8		
		Gutapaliem ...	2,560	4	...	...	2,560	4		
	Váyalpád ...	Yellutla	4,840	7½	...	...	4,840	7½	Notfn. No. 54 of 14th March 1884.	
		Gajjbuchikona ...	320	½	...	...	320	½		
		Yerramorallajedu...	3,680	5½	...	...	3,680	5½		
		Ankalammakonda..	2,800	4	...	...	2,800	4		
		Nurukupalakonda...	3,700	5½	...	...	3,700	5½		
		Doddipalle ...	2,560	4	...	...	2,560	4	Notfn. No. 306 of 24th July 1886.	
		Sorakayalapeta ...	2,560	4	...	...	2,560	4		
		Peddamallela ..	3,200	5	...	...	3,200	5		
		Marella	7,680	12	...	...	7,680	5		
		Talakona	19,840	31	...	...	19,840	12		
		Bhakarapet ...	9,800	15	...	...	9,800	31		
								15		
		Total ...	1,061,423	1,656½	11,073	1,986	1,070,510	1,672½		
Kurnool.	Sirvel and Nandyál.	Sirvel ... S	128,000	800	...	...	128,000	200	Notfn. of 21st April 1883.	
	Nandyál and Nandikótkur.	Nandyál ... S	192,000	300	...	...	192,000	300		
	Nandikótkur ...	Nandikótkur S	256,000	400	...	...	256,080	400		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Kurnool—*cont.*	Cumbum ...	Uyalavada S	448,000	700	...	...	448,000	700	Notfn. No. 198 of 17th Nov. 1883.	
	Cumbum and Markapur ..	Cumbum ... S								
	Markapur ...	Markapur								
	Cumbum ...	Northern Veligondas. S	19,200	30	...	...	19,200	30	Notfn. No. 199 of 17th Nov. 1883.	
		Southern do. S	19,200	30	...	...	19,200	30		
		Western do. ...	10,880	17	...	...	10,880	17		
	Yerramalais ...	Ramallakot ...	4,000	6	...	2,000	2,000	3		Rectification of area.
		Lanjabanda ...	2,000	3	...	...	2,000	3	Notfn. No. 74 of 6th Mar. 1888.	
		Yaipalapadu ...	3,500	5½	...	...	3,500	5½		
		Dhone	14,000	22	...	...	14,000	22		
		Gadithemadugu ...	3,000	5	...	...	3,000	5		
		Total ...	1,099,780	1,718½	...	2,000	1,097,780	1,715½		
Bellary.	Adóni ...	Ganekolu ... S	1,118	1¾	...	...	1,118	2	Notfn. No. 175 of 16th Sept. 1884.	Equivalent in square miles has been rectified.
		Badenahalu S	792	1¼	...	...	792	1		
		Katalam ... S	681	1	...	...	681	1		
		Halekota ... S	486	¾	...	...	486	1		
		Sulekeri	1,342	2¼	...	...	1,342	2		
		Halevy ... S	1,145	1½	...	...	1,145	2		
		Nundavaram S	971	1½	...	...	971	1½		
		Ráyachóti ... S	1,863	2¾	...	...	1,863	3		
		Kurimetta S	3,341	5¼	...	...	3,341	5		
		Bunivasi ... S	1,964	3¾	...	...	1,964	3		
		Kotekallu ... S	2,569	4	...	...	2,569	4		
		Adóni	5,000	8	...	...	5,000	8		
		Kupgul	4,650	7¼	...	...	4,650	7		
		Tungabhadra ...	4,633	7¼	...	...	4,633	7		
		Kósgi	2,970	4¾	...	...	2,970	5		
		Kudbur	2,952	4¾	...	...	2,952	5		
	Alúr	Gummanur S	649	1	...	...	649	1	Notfn. No. 65 of 20th Feb. 1888.	
		Chippigiri S	...	...	1,182	...	1,182	2	Notfn. No. 123 of 27th April 1888.	
		Degalabalu ...	...	...	110	...	110	...		
		Yeruru ... S	...	...	535	...	535	1		
	Bellary ...	Timmapuram S	1,267	2	...	...	1,267	2	Notfn. No. 87 of 20th March 1888.	
		Bellary	8,000	12½	...	...	8,000	12	Notfn. No. 51 of 12th March 1884.	
		Mincheri	4,000	6¼	...	...	4,000	6		
	Hospet ...	Gound	3,000	4¾	...	...	3,000	5	Notfn. No. 197 of 16th Nov. 1883.	
		Hospet	5,000	8	...	...	5,000	8		
		Jog	4,000	6¼	...	...	4,000	6		
		Oblagudi	1,000	1½	...	...	1,000	1½	Notfn. No. 197 of 16th Nov. 1883.	
		Tornagul	2,100	3¼	...	...	2,100	3	Notfn. No. 102 of 17th May 1884.	
		Billekal	...	...	14,000	...	14,000	22	Notfn. No. 22 of 21st Jan. 1889.	
		Buckasagar ...	...	...	8,000	...	8,000	12		
	Kudligi and Hospet	Bandri	7,000	11	...	...	7,000	11	Notfn. No. 197 of 16th Nov. 1883.	
	Kudiligi ...	Sherbi	3,000	4½	...	...	3,000	5	Notfn. No. 174 of 13th Sept. 1884.	
		Gollalinganhalli ...	1,000	1½	...	...	1,000	1½		
		Tumurgudi ...	2,500	4	...	...	2,500	4		
		Somalapur ...	1,000	1½	...	...	1,000	1½	* Notfn. No. 79 of 26th Mar. 1889.	
		Sunkadakal ...	7,000	11	843 *	...	7,843	12½		
		Shivpur	9,000	14	...	...	9,000	14		
		Banavikal	...	...	3,000	...	3,000	5	Notfn. No. 79 of 26th Mar. 1889.	
		Nimbagiri ...	...	...	4,800	...	4,800	7½		
		Gadekota	...	...	7,000	...	7,000	11		
	Hadgalli and Harpanhalli.	Harada	18,000	28¼	...	...	18,000	28	Notfn. of 14th Jan. 1885.	
		Sogay	4,200	6½	...	...	4,200	6½		
	Harpanhalli ...	Jitnakatta ...	...	...	12,646	...	12,646	20	Notfn. No. 116 of 20th April 1888.	
		Jangukalgutta ...	...	...	12,882	...	12,882	20		
		Alagilanada ...	...	...	1,956	...	1,956	3		
		Uchangidrug ...	..	...	4,291	...	4,291	7		
	Ráyadrug ...	Rayadrug	6,000	9¼	...	...	6,000	9	Notfn. No. 150 of 21st May 1885.	
		Dharmapuri ...	3,600	5½	...	...	3,600	5½		
		Argupa	1,000	1½	...	...	1,000	1½		
		Boodikonda ...	...	...	1,000	...	1,000	1½	Notfn. No. 157 of 8th June 1888.	
		Total ...	128,793	201¾	72,245	...	201,038	314		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1889.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Anantapúr.	Gooty ...	Peddadoddi ...	3,200	5	...	...	3,200	5		
		Jakkalacheruvu ...	3,200	5	...	...	3,200	5		
		Pamidi	640	1	...	...	640	1		
		Nagasamudram ...	9,600	15	...	...	9,600	15	Notfn. No. 203 of 20th May 1887.	
		Cutturmulla ...	7,680	12	...	...	7,680	12		
		Bhattrampalle ...	2,560	4	...	...	2,560	4		
		Marutla	11,520	18	...	...	11,520	18		
		Tarramalla ...	8,960	14	...	...	8,960	14		
		Yadaki	5,120	8	...	...	5,120	8	Notfn. No. 134 of 28th Feb. 1887.	
	Muchukota ...	Muchukota S	7,040	11	...	640	6,400	10	Notfn. No. 191 of 6th Oct. 1884.	Rectification of area.
		Durgam ... S	3,200	5	...	...	3,200	5	Notfn. No. 205 of 20th May 1887.	
		Kudair	4,480	7	...	...	4,480	7		
		Upparapalli ...	640	1	...	...	640	1		
		Dadithota	1,920	3	...	...	1,920	3	Notfn. No. 134 of 28th Feb. 1887.	
		Yellutla	5,120	8	...	...	5,120	8		
		Chillawaripalle ...	3,840	6	...	...	3,840	6		
		Konakuntla ...	1,280	2	...	...	1,280	2		
		Nairjampalle ...	1,920	3	...	...	1,920	3		
		Yelanur	320	½	...	...	320	½		
		Gootoor ... S	3,200	5	3,200	...	6,400	10	Notfn. No. 166 of 8th May 1886.	Rectification of area.
	Dharmavaram.	Kalyandrug S	960	1½	...	...	960	1½	Notfn. No. 8 of 22nd Dec. 1886.	
		Ramgherry ...	10,240	16	...	...	10,240	16		
		Bhadrapoor S	3,200	5	...	...	3,200	5		
		Nyalakota S	7,680	12	...	...	7,680	12	Notfn. No. 166 of 8th May 1886.	
		Narsampalli ...	2,560	4	...	2,560	...	...	...	Transferred to Form 59A. Entered last year by mistake.
	Penukonda ...	Penukonda hill S	1,600	2½	...	...	1,600	2½	Notfn. No. 166 of 8th May 1886.	
		Somandapally S	10,240	16	...	...	10,240	16		
		Yerlampalle S	2,240	3½	...	...	2,240	3½		
		Mallappakonda ...	5,120	8	...	...	5,120	8		
		Mallakaveimla-konda ... S	960	1½	...	...	960	1½	Notfn. No. 166 of 8th May 1886.	
		Naradikonda S	2,560	4	...	...	2,560	4		
	Hindupur ...	Jauavaripalle ...	...	...	3,200	...	3,200	5	Notfn. No. 74 of 26th Oct. 1888.	
		Agraharam ...	...	...	2,300	...	2,300	3½		
		Venglumcheruvu.	...	...	2,880	...	2,880	4½		
		Yerrakonda S	3,920	6	500	...	4,420	7	Notfn. No 166 of 8th May 1886.	Rectification of area.
		Amagondapalium S	16,360	25½	...	...	16,360	25½		
		Dokulkonda S	2,880	4½	...	...	2,880	4½		
		Kondur	...	...	400	...	400	½	Notfn. No. 232 of 8th Aug. 1888.	
		Gopidevarapalle ...	...	...	1,920	...	1,920	3		
		Total ...	155,960	243½	14,400	3,200	167,160	261		
Nilgiris.	Ootacamund...	Nanjanad	1,327	2	...	1,327	...	...		Already transferred to Form 59A.
		Chemenguli ...	901	1½	...	901	...	...		
		Fern Hill Shola S	14	...	...	4	10	...	Notfn. No. 428 of 8th Nov. 1886.	
		Addition to Fair-lawns block No. I.S	22	...	...	...	22	...		
		Addition to Dodda-betta block No. II.S	17	...	...	5	12	...		
		Addition to Doda-halla ... S	10	...	...	...	10	...		
		Bilikal road S	25	...	...	...	25	...		
	Naduvatam ...	Naduvatam ...	35	...	...	35	...	...	...	Rectification of area.
		Devamalai ...	114	...	115	...	229	½	Notfn. No. 54 of 24th May 1885.	Rectification of area.
	Sígúr	Sígúr	48,022	75	...	6,895	41,127	64		Rectification of area to exclude villages.
	Coonoor ...	Honnathalai (south) S	218	½	...	...	218	½	Notfn. No. 168 of 20th April 1886.	
		Bettumand S	137	...	...	...	137	...		
		Rallia	382	½	...	...	382	½		
		Little Rallia S	29	...	...	...	29	...		
		Rallia Shola S	30	...	...	...	30	...		
		Halakaray S	172	½	½	...	172	½		

Area of Reserved Lands, 1888-89—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nilgiris—*cont.*	Coonoor—*cont.*	Teppakuchi S	119	...		...	119	½		
		Billithittu ... S	35	...	...	...	35	...		
		Dolphin ... S	65	...	...	...	65	...		
		Guernsey ... S	14	...	...	...	14	...		
		Kodámálai S	15	...	...	...	15	...		
		Naduhatti ...	509	1	...	...	509	1		
		St.Catharine'sFallS	124	½	...	...	124	½		
		Constantia S	35	...	...	...	35			
		Tuttapolliam S	54	...	...	...	54	...		
		Gudakalhalla S	299	½	..	...	299	½		
		Bettu Nos.1 and 2.S	29	...	...	...	29	...		
		Kunnavara addition ... S	97	...	...	...	97	...		
		Kanavatti ... S	16	...	...	...	16	...		
		Deepdale ... S	361	½	...	...	361	½		
		Gudakal ... S	600	1	...	...	600	1		
		Clyffe ... S	33	...	...	...	33	...		
		Yercaudhalla S	20	...	...	...	20	...		
		Konakarai slopes S	1,864	3	...	...	1,864	3		
		Doddabetta S	105	...	...	...	105	...		
		Shamrock ... S	43	...	...	...	43	...		
		Bikkehatti S	19	...	...	..	19	...		
	Kotágiri ...	Ittakal, Nos. 1 and 2 ... ... S	21	...	...	...	21	...	Notfn. No. 168 of 20th April 1886.	
		Mavada ... S	211	½	...	...	211	½		
		Kuttada, Nos. 1 and 2 ... ... S	29	...	...	...	29	...		
		Vagapanai S	2,648	4	...	...	2,648	4		
		Denad ... S	2,072	3	1	...	2,073	3	.....	Rectification of area.
		Sundatti ... S	124	...	...	...	124	½		
		Kunshola ... S	159	1	...	...	159	1		
		Kirkanara, Nos. 1 and 2 .. S	24	...	...	...	24	...		
		Kellatti ... S	17	...	...	...	17	...		
		Hadumund S	48	...	...	...	48	...		
		Uppatti ... S	53	...	...	...	53	...		
		Doddakavu S	62	...	...	...	62	...		
		Ullavanad shola S	57	...	...	...	57	...		
		Sinnattu shola S	51	...	...	...	51	...		Rectification of area.
		Madanad ... S	722	1	1	...	723	1		
		Kodanad Valley S	294	½	...	..	294	½		
		Nadukaduhalla ...	908	1½	...	...	908	1½		
		Nedugula ... S	89	½	...	...	89	½		
		Longwood additions ... S	31	...	...	...	31	...		
	Kullár ...	Kullár additions S	72	...	...	...	72	...		
		Benhope, No. 2 S	34	...	...	...	34	...		
		Jakanare slopes S	6,419	10	...	...	6,419	10		
		Kallúr ... S	388	½	...	...	388	½		
		Total ...	70,444	109	117	9,167	61,394	96		
		Grand Total ...	4,073,369	6,367¼	116,736	79,951	4,110,154	6,424		

Annual Form No. 59-D.

Forest Department, Madras, Northern Circle.

Area of Leased Forests, 1888-89.

District.	Range.	Name of Forest.	Area on 1st April 1888. Acres.	Area on 1st April 1888. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1889. Acres.	Area on 31st March 1889. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Bellary ...	Sandúr ...	Sandúr ...	40,000	62½	...	...	40,000	62½	...	Rectification of area.
Nílgiris ...	Mudumalai ...	Mudumalai ...	87,285	136	...	40,646	46,639	73		
		Total ...	127,285	198½	...	40,646	86,639	135½		

ANNUAL FORM No. 60.

Forest Department, Madras, Northern Circle.

Area of Plantations, 1888-89.

District.	Range.	Name of plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Godávari.	Narsápur ...	Rustambadu ...	24	4,153	...	44	24	4,197	1866-67.
		Sitarampuram ...	26				26		
	Amalápuram.	Bendemurlunka (old).	27	2,014	...	...	27	2,014	1875-76.
		Do. (new).	20	1,312	...	78	20	1,390	1882-83.
		Total ..	97	7,479	...	122	97	7,601	
Kistna.	Bandar ...	Kara	14	387	...	...	14	387	
		Weld	75	3,384	...	732	75	4,116	1885.
		Kodúr	40	287	...	48	40	335	
		Gopavanipalem ...	25	764	10	328	35	1,092	
		Kanukolu ...	137	1,589	10	647	147	2,236	
		Allinagaram ...	125	823	1	56	126	879	
		Korlapadu ...	20	229	— 20	— 229	...	...	Sold.
		Bomminampadu ...	26	358	...	49	26	407	
		Vemavarampadu ...	16	272	...	1	16	273	
		Vanudhuru ...	25	402	1	49	26	451	
	Bezváda ...	Ibrampatnam ...	24	368	— 24	55 — 423	...	...	Exchanged for lands in Kondapalle Reserved Forest.
		Gavuravaram ...	30	286	...	65	30	351	
	Bápatla ...	Bápatla	21	636	1 — 5	98 — 150	17	584	5 acres cleared.
		Karlapalem ...	79	4,053	...	168	79	4,221	
		Vidhullapalle ...	13	467	...	...	13	467	
		Wardarevu ...	72	3,643	...	84	72	3,727	
		Nayanapalli ...	12	1,172	...	84	12	1,256	
		Pandhillapalli ...	14	510	...	84	14	594	
		Total ...	768	19,630	23 — 49	2,548 — 802	742	21,376	
Nellore.	Casuarina Plantation.	Dugarázpatam ...	615	39,363	80 — 130	1,753 — 227	565	40,889	1873.
		Kothapatnam ...	460	30,210	50 — 25	1,353 — 117	485	31,446	Rectification of figures.
		Tamminapatam ...	499	43,620	20	894 — 115	519	44,399	1873.
		Utukúr	180	16,110	...	72	180	16,182	1875.
		Varani	292	34,732	...	48	292	34,780	1874.
	Kávali ...	Tummalapenta ...	100	18,717	...	70	100	18,787	1873.
		Ramapatam ...	60	19,555	...	65	60	19,620	
		Kothapatam ...	146	14,714	...	52	146	14,766	
		Kanuparthi ...	250	16,546	...	52	250	16,598	1873.
	Sríharikót ...	Chandrasikuppam.	10	670	...	48	10	718	
	Nellore ...	Allipuram ...	39	9,287	... — 39	3 — 9,290	...	...	Already cleared.
	Atmakúr ...	Mamudur	9	1,434	...	...	9	1,434	
		Total ...	2,660	2,44,958	150 — 194	4,410 — 9,749	2,616	2,39,619	
Cuddapah.	Kódúr ...	Kódúr	37	7,084	...	78	37	7,162	1865.
		Uparapalle ...	108	8,399	...	75	108	8,474	1869.
		Reddipalle ...	925	13,304	...	74 + 3	925	13,381	1870. Tangedu sowings cost.
		Arimanabanda ...	4	774	...	72	4	846	1884.
		Pullagundlamadugu	30	228	25	... + 62	55	290	1887. Transferred from cultural operations.

Area of Plantations, 1888-89—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.*	Rájampet ...	Pullampet ...	426	8,036	...	{ 48 + 146	426	8,230	1871. Tangedu sowings cost, 119 acres completed.
	Cuddapah ...	Kamalápuram ...	332	10,225	{ ... + 122	192 + 376	454	10,793	1869. Plamyra and other sowings.
		Total ...	1,862	48,050	+ 147	{ 539 + 587	2,009	49,176	
Nilgiris	Mudumalai ...	Mudumalai ...	61	16,770	...	64	61	16,834	
		Benne	40	11,180	...	119	40	11,299	
	Naduvatam ...	Northernbay ...	23	10,209	{ ... – 23	70 – 10,279	...	...	Struck off.
	Ootacamund...	Chemenguli ...	33	3,861	...	...	33	3,861	1879.
		Mutbanád	95	6,713	...	...	95	6,713	1880–83.
		Brooklands ...	10	328	...	...	10	328	1862.
		Marliamund ...	11	833	...	...	11	833	1860.
		Snowdon	7	214	...	8	7	222	1860.
		Governor's shola ...	277	10,603	...	22	277	10,625	1880.
		Aramby	220	13,898	13	1,324	233	15,222	1863.
		Cairn Hill	160½	12,075	8	1,267	168½	13,342	1877.
		Lovedale	1½	851	{ 1 – 2½	231 – 1,082	...	...	Transferred to cultural operations.
	Melúr	Devashola	14	1,640	...	...	14	1,640	1880.
	Coonoor ...	Blackbridge ...	56	1,921	...	...	56	1,921	1874.
		Bleakhouse ...	235	4,704	– 54	83	87	2,344	1857. Rectification.
		Bandyshola ...				25	94	2,468	1857. Rectification.
		Coonoor peak ...	210½	6,597	24	754	234½	7,351	1872.
		Tippakutchi ...	35	783	...	...	35	783	1882.
		Rallia	105	2,571	...	17	105	2,588	1872.
		Ghát reserve ...	9	406	{ 3 – 12	60 – 466	...	...	Transferred to cultural operations.
		Sim's park ...	2	1,031	{ 4 – 6	993 – 2,024	...	...	Transferred to cultural operations.
	Kótagiri ...	Longwood	7	128	{ ... – 7	201 – 329	...	...	
	Kullar	Kullar	92½	3,039	27	1,303	119½	4,342	1886.
		Municipal assessment.	...	1,752	...	...	...	1,752	
		Total ...	1,705	1,12,107	{ 80 – 104½	6,541 – 14,180	1,680½	1,04,468	

CULTURAL OPERATIONS.

Ganjam.	Chokapad ...	Mojagodo	3½	720	– 3½	– 720	...	...	Small teak experimental plantation.
		Miscellaneous items	...	...	...	103	...	103	
		Total ...	3½	720	– 3½	{ 103 – 720	...	103	
Vizagapatam.	Pálkonda ...	Voni	25	1,460	– 25	– 1,460	...	...	Not really plantations, but groups of tended sál.
		Lakshmipuram ...	26		– 26				
		Total ...	51	1,460	– 51	– 1,460	...	...	
Kistna.	Bezváda ...	Bezváda	...	70	...	83	...	153	Sowings, &c., in blanks.
		Total ...	...	70	...	83	...	153	

Area of Plantations, 1888-89—*cont.*

District.	Range.	Name of plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total. Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nellore.	Kavali	...	50	324	...	...	50	324	Miscellaneous sowings in forest and among prickly-pear.
	Sríharikót ...	Sríharikót ...	10	1,353	100	172	110	1,525	Miscellaneous plantings.
		Total ...	60	1,677	100	172	160	1,849	
Cuddapah.	Kódúr ...	Ballipalle	2	1,032	...	133	2	1,165	Nursery.
		Do. Working Circle, Compartment 5 B.	12	9	...	...	12	9	
		Do. do. 6 B.	30	245	...	74	30	319	Filling blanks.
		Pullagundlamadugu	25	62	— 25	— 62	...	...	Transferred to plantations.
		Sandakona ...	5	146	...	29	5	175	Watering and filling blanks.
	Rájampet ...	Pullampet ...	107	146	— 107	— 146	...	...	Transferred to plantations.
		Reddipalle ...	7	3	— 7	— 3	...	...	
	Cuddapah ...	Kamalapuram ...	121¼	376	— 121¼	— 376	...	...	
		Appaiapalle ...	25¼	29	...	...	25¼	29	
	Proddutur ...	Gandikota ...	321	18	...	...	321	18	
		Pennér banks ...	160	199	...	...	160	199	3,000 palmyra seeds sown by watcher.
	Kádiri	Nigadi	4	...	— 4	...	...	...	Ceara rubber trees, struck off.
	Madanapalli ...	Horsleykonda ...	1	39	...	...	1	39	Nursery.
		Do. ...	1¼	12	...	25	1¼	37	Filling blanks, Eucalyptus and Acrocarpus.
		Basinikonda ...	¼	...	— ¼	...	...	...	Struck off.
	Váyalpád ...	Ankalammakonda.	22	61	...	...	22	61	
		Nurukupalakonda.	5	41	...	...	5	41	
		Total ...	849	2,418	— 264½	{ 261 / — 587 }	584½	2,092	
Kurnool.	Nandyál ...	Nandyál	...	...	...	57	...	57	Nursery for Eucalyptus
		Miscellaneous items	...	...	...	4	...	4	Haloxylon, &c.
		Total ...	...	...	...	61	...	61	
Bellary.	Hospet ...	Gandlavattugiri ...	4	...	— 4	...	...	...	Omitted as they are not plantations, but natural babul tracts.
		Nayanahalli ...	10	...	— 10	...	...	...	
	Sandúr ...	Ramandrug ...	...	56	...	52	...	108	Nursery.
		Hampi	...	...	...	20	...	20	
		Miscellaneous ...	...	...	...	75	...	75	Nursery for dates.
		Total ...	14	56	— 14	147	...	203	
Nilgiris.	Ootacamund ...	Lovedale	...	...	1½ / 1	+ 851 / + 231	2½	1,082	Transferred from plantations. Bucklandi and indigenous plant were planted i blanks.
	Coonoor ...	Ghát reserve ...	...	...	9 / 3	+ 406 / + 60	12	466	Transferred from plantations. Acer Campbellii, casuarina an indigenous kinds i blanks.
		Lambs rock ...	...	...	2	25	2	25	Indigenous kinds i blanks.

Area of Plantations, 1888-89—*cont.*

District.	Range.	Name of plantation.	On 1st April 1888.		Added during 1888-89.		On 31st March 1889.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			Acs.	Rs.	Acs	Rs.	Acs.	Rs.	
Nilgiris—*cont.*	Coonoor—*cont.*	Sim's park ...	...	...	2 4	+ 1,031 + 993	6	2,024	Transferred from plantations, exotic kinds, such as Bucklandia, Grevillea robusta and different kinds of gums.
	Kotagiri ...	Longwood ...	...	...	7	+ 128 + 201	7	329	Transferred from plantations.
		Miscellaneous items	...	...	...	657	...	657	Municipal assessment wrongly charged to this head.
		Total ...	...	...	29½	682 + 3,901	29½	4,583	
		Total Plantations...	7,092	4,32,224	52½	14,158 – 24,144	7,144½	4,22,238	
		Total Cultural Operations.	977½	6,401	– 203½	1,511 + 1,134	774	9,046	
		Add Topes ...	6,865	1,09,357	...	2,215	6,865	1,11,572	
		Direction	...	...	...	50	...	50	
		Grand Total A-VIII, d ...	14,934½	5,47,982	– 151	17,934 – 23,010	14,783½	5,42,906	

Annual Form No. 61.

Forest Department, Madras, Northern Circle.

Annual Statement of Topes.

District.	Taluk.	Number of topes.	Area.	Cost		Remarks.
				During year.	To end of year.	
			ACS.	RS.	RS.	
Ganjam	Berhampore	3	13	...	922	
	Gúmsur	1	83	...		
	Chicacole	3	5	...		
	Total ...	7	101	...	922	
Vizagapatam ...	Pálkonda	2	56	...	8	
	Total ...	2	56	...	8	
Godávari	Rámachendrapuram ...	8	30	...	...	
	Total ...	8	30	...	...	
Kistna	Bandar	2	9	108	704	
	Gudiváda	1	5	16	281	
	Bezváda	1	4	...	238	
	Nandigáma	1	11	59	342	
	Vinukonda	1	6	48	305	
	Narsaraopet	1	7	48	274	
	Sattenapalle	1	6	...	15	
	Bápatla	1	2	...	1,298	
	Répalle	1	1	...	...	
	Guntúr	1	3	...	...	
	Not accounted for ...	...	...	104	104	
	Total ...	11	54	383	3,561	
Nellore	Gúdúr	11	124	...	3,206	
	Rápúr	15	183	...	8,533	
	Nellore	33	380	...	6,599	
	Atmakúr	3	12	...	4,420	
	Venkatagiri	9	130	...	2,793	
	Kávali	17	742	...	4,190	
	Udayagiri	4	29	...	2,665	
	Kandukúr	6	13	...	1,853	
	Kanigiri	5	19	...	1,408	
	Ongole	4	107	...	1,212	
	Podili	4	13	...	1,165	
	Total ...	111	1,752	...	38,044	
Cuddapah	Pullampet	8	69	132	5,690	
	Sidhout	4	40	48	8,144	
	Badvél	6	63	205	2,884	
	Proddutur	2	32	5	1,715	
	Jammalamadugu	9	309	69	12,500	
	Pulivendla	10	638	157	5,039	
	Cuddapah	7	148	60	6,103	
	Kadiri	8	73	11	2,186	
	Madanapalle	8	68	144	6,554	
	Ráyachóti	5	95	24	1,647	
	Váyalpád	3	30	...	3,442	
	Total ...	70	1,565	855	55,904	
Kurnool	Ramallakot	7	66	...	839	
	Pattikonda	5	29	...	1,879	
	Koilkuntla	4	9	...	3,683	
	Nandikótkur	1	2	56	361	
	Nandyál	3	33	56	1,233	
	Sirvel	2	16	96	570	Rectification.
	Cumbum	2	13	...	22	
	Márkápur	3	14	...	257	
	Total ...	27	182	208	8,844	

Annual Statement of Topes—*cont.*

District.	Taluk.	Number of topes.	Area.	Cost		Remarks.
				During year.	To end of year.	
			ACS.	RS.	RS.	
Bellary	Bellary	6	86	...	...	
	Kúdligi	4	9	...	...	
	Hadgalli	2	11	...	41	
	Harpanahalli	2	3	...	...	
	Alúr	11	101	...	88	
	Adóni	2	13	47	326	
	Rayádrug	4	17	93	274	
	Total ...	31	240	140	729	
Anantapur ...	Anantapur	5	124	166	316	
	Gooty	10	184	75	173	
	Tadpatri	15	565	48	171	
	Dharmavaram	29	1,555	110	2,380	
	Hindupur	16	121	36	206	
	Penukonda	15	310	146	216	
	Madaksira	5	26	48	98	
	Total ...	95	2,885	629	3,560	
	Grand Total ...	362	6,865	2,215	1,11,572	

Annual Form No. 62.

Forest Department, Madras, Northern Circle.

Area of Forest Tracts protected from Fire during 1888-89.

District and Range.		Forest Tract.	On 1st April 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Area burnt.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Ganjam	Chokapád	Dimrijholi	...	...	5,480	16	5,464	14	14	1889	
		Rambha	...	...	9,300	...	9,300	26	26		
		Darpangia and Baibali.	21,753	1,008	38,080	130	37,950	56	1,064	1885	
	Bodoborosinghi.	Gullery	...	...	23,860	73	23,787	24	24		
		Koolada	...	...	2,760	54	2,706	14	14		
		Teleki	...	...	15,200	70	15,130	22	22		
		Kaliamba	...	...	5,200	20	5,180	23	23		
		Rogada	...	...	16,000	14	15,986	22	22		
		Vinjagheri	...	...	6,000	5	5,995	12	12		
		Malati	...	...	1,720	...	1,720	28	28	1889	
		Hukuma	...	...	4,160	5	4,155	10	10		
	Pondokol	Rayigoda	...	...	6,700	8	6,692	10	10		
		Bondagocha	...	...	4,400	1	4,399	7	7		
		Pippalapanka	...	...	7,700	3	7,697	10	10		
		Dhougam	...	...	2,400	9	2,391	10	10		
		Moondapitta	...	...	6,880	...	6,880	10	10		
	Gayagonda	Ambazara and Chondorgiri.	4,490	1,068	50,320	13,041	37,279	90	1,158	1885	
	Jagannathprasád.	Jagannathprasád.	...	...	26,200	2,010	24,190	43	43		
		Paichalia	...	...	13,760	1,983	11,777	15	15		
		Brahmanosai	...	...	8,080	1,012	7,068	15	15		
	Boogooda	Vishnuchakram	...	...	4,860	270	4,590	7	7		
		Panchbuthi	...	...	4,320	460	3,860	10	10	1889	
		Kurcholi	...	...	5,520	630	4,890	10	10		
		Kriyamba	...	...	23,320	1,054	22,266	19	19		
		Sandusalya	...	...	2,000	...	2,000	5	5		
		Bodochendana	...	...	800	...	800	5	5		
	Berhampore	Mohiri hills	18,230	606	18,230	200	18,030	154	760	1885	
		Total	44,473	2,682	313,250	21,068	292,182	671	3,353		
Vizagapatam.	Sarvasiddhi	Peddapalli	...	...	8,960	30	8,930	...	...	1889	
		Total	...	...	8,960	30	8,930	...	...		
Godávari	Bhadrachálam.	Dumagudem	...	...	6,110	1,920	4,190	5	5	1887-88	
		Arlagudem	...	...	6,136	1,920	4,216	5	5		
		Gogubaka	...	...	1,666	320	1,346	3	3	1888-89	
	Marrigudem.	Rapak	...	...	7,000	7,000	...	9	9	1887-88	
		Ramchandram	8,080	...	10,300	1,920	8,380	9	9		
		Tatlunka	9,440	...	12,000	2,560	9,440	...	...	1887	
	Rajahmundry	Kothapalli	5,000	57	18,000	20	17,980	49	106		
		Devancheruvu	2,350	41	2,330	...	2,330	33	74		
		Ramasaram	1,300	...	1,250	...	1,250	14	14	1888	
		Kovida	...	...	1,280	...	1,280	6	6	1889	
		Murari	...	...	900	...	900	6	6		
	Ellore	Velagalapalle	2,560	...	2,200	...	2,200	16	16		
		Chintalapudi	2,560	...	1,100	...	1,100	16	16		
		Bárrikonda	3,640	...	2,700	150	2,550	32	32		
		Erraguntapalli	...	...	9,600	200	9,400	31	31	1888	
		Bandamchérla	6,400	...	5,200	...	5,200	32	32		
		Ramasingavaram	1,920	...	1,920	...	1,920	16	16		
		Tadikalapudi	2,560	...	2,560	...	2,560	16	16		
		Total	45,810	98	92,252	16,010	76,242	298	396		
Kistna	Bezvada	Kondapalle	8,320	1,807	8,320	...	8,320	560	2,367	1884	Specially protected.
	Vinukonda	Bollapalli	6,400	800	6,400	60	6,340	95	895		
	Palnad	Mutukur	6,400	195	6,400	...	6,400	61	256	1885	
		Madinapadu	1,920	304	9,600	...	9,600	76	380		
	Guntur	Kondavid	...	...	13,165	12	13,153	8	8	1888	
		Total	23,040	3,106	43,885	72	43,813	800	3,906		

Area of Forest Tracts protected from Fire during 1888-89—*cont.*

District and Range.	Forest Tract.	On 1st April 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Area burnt.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Nellore ... Rápúr ...	Rápúr Veligondas.	25,240	195	27,000	2,900	24,100	242	437	1885	
Udayagiri ...	Udayagiri do.	21,400	446	23,000	1,500	21,500	561	1,007		
Kanigiri ...	Kanigiri do.	23,800	...	25,000	2,100	22,900	...	...		
	Total ..	70,440	641	75,000	6,500	68,500	803	1,444		
Kodur ..	Ballipalle (West).	6,307	1,889	6,307	..	6,307	277	2,166	1867	
	Do. (East).	8,460	2,065	8,960	31	8,929	373	2,438	1871	
	Kodur Hill ...	6,840	1,496	7,440	900	6,540	277	1,773	1874	
	Vagetikóna ...	3,595	609	3,595	1	3,594	95	704		
	Yerraguntlakota..	1,435	1,185	3,000	...	3,000	177	1,362	1873	
	Rallakonda ...	1,565	428	1,565	...	1,565	102	530	1879	
	Gathela ...	6,780	737	6,800	2	6,798	121	858	1874	
	Thanakonda ...	1,042	474	1,048	...	1,048	54	528		
	Rollamadugu ...	5,424	309	5,424	...	5,424	53	362	1878	
Rajampet ...	Srirangarazupalliem.	5,000	967	5,000	1,920	3,080	226	1,193	1883	
	Vattalúr Hill ...	2,880	174	2,880	...	2,880	82	256	1887	
Kadiri ...	Nigadi	13,950	823	14,000	...	14,000	95	918		
	Malakavemala ...	8,500	439	8,500	...	8,500	...	439		
	Kondagamerla ...	3,700	219	3,700	...	3,700	12	231		
	Tumala ...	2,495	227	2,495	...	2,495	36	263		
	Kokanti	2,000	199	2,000	...	2,000	12	211		
	Gorivikanama ...	18,000	209	18,000	...	18,000	...	209		
Madanapalle.	Rekkalakonda ...	1,200	178	1,200	...	1,200	15	193		
	Mallaiakonda ..	2,200	205	2,200	...	2,200	24	229		
	Kosuvaripalle ...	1,400	143	1,400	...	1,400	9	152	1881	
	Sompalle ...	800	98	800	...	800	...	98		
	Horsleykonda ...	9,630	582	9,630	...	9,630	106	688		
	Yellutla	3,500	225	3,500	...	3,500	28	253		
	Nadimicherla ...	2,000	219	2,000	...	2,000	...	219		
Vayalpad ...	Nurukupalakonda.	3,600	396	3,600	...	3,600	63	459		
	Ankalammakonda	2,000	390	2,000	...	2,000	42	432		
	Gorantlapalle ...	4,000	210	4,000	...	4,000	12	222		
Cuddapah... Cuddapah ...	Mamillapalle ...	3,000	981	5,000	...	5,000	227	1,208	1883	
									1888	
Cuddapah and Rayachoti.	Guvalacheruvu ...	7,600	817	7,600	2,100	5,500	222	1,039	1883	
	Gadikota ...	11,480	839	12,480	171	12,309	186	1,025	1883	
Rayachoti ...	Sibyala ...	3,500	48	3,500	...	3,500	45	93	1887	
	Tsundupalle ...	3,000	28	3,000	...	3,000	21	49		
Sidhout ...	Arapayakanama..	...	791	10,000	1,780	8,220	445	1,236	1883	
	Kanamalapalle ...	4,435	628	4,435	2,500	1,935	219	847	1887	
Badvel ...	Kottakota ...	8,537	597	8,640	...	8,640	164	761	1885	
Proddutur ...	Mudireddipalle ...	12,000	817	12,000	1,941	10,059	113	930	1883	
	Ramesvaram ...	91	29	91	...	91	...	29		
	Thallamapuram...	153	34	153	...	153	...	34		
	Vellela ...	258	34	258	...	258	...	34		
	Alladupalle ...	197	33	197	...	197	...	33		
	Payadala ...	99	19	99	...	99	...	19		
	Nidujubi ...	696	101	696	...	696	9	110		
	Kottapalle ...	120	19	120	...	120	...	19		
	Kalamella ...	730	147	730	...	730	13	160		
	Kosinepalle ...									
	Modanattupalle...	86	18	86	...	86	...	18		
	Anantapuram ...	138	19	138	..	138	...	19	1881	
	Kallár ...	160	17	160	...	160	...	17		
	Kondasankesula..	858	95	858	...	858	15	110		
	Gandikota ...	372	93	372	...	372	...	93		
	Yamavaram ...	200	91	200	...	200	...	91		
Jammalamadugu.	Dhodiem	1,345	102	1,345	...	1,345	15	117		
	Murupandi ...									
	Malamidikambaladinne.	1,366	141	1,366	...	1,366	15	156		
	Kodur									
	Aravetipalle ...	850	106	850	...	850	10	116		
	Denepalle ...									
	Peddadudiala ...									
	Total ...	189,574	21,739	205,418	11,346	194,072	4,010	25,749		

Area of Forest Tracts protected from Fire during 1888-89—*cont.*

District and Range.		Forest Tract.	On 1st April 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Area burnt.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Kurnool	Atmakur	Atmakur-Velgode	14,500	2,480	...	...	...	...	2,480	1884	
	Nandikotkur	Bairluti ...	2,250	275	4,000	3,500	500	438	713	1887	
	Nandyal	Mallalamma ...	...	...	2,000	200	1,800	122	122		
	Markapur ...	Rollapenta ...	...	...	3,600	3,600	...	78	78		
	Cumbum ..	Western Veligondas.	...	...	10,880	3	10,877	196	196	1889	
	Pattikonda ...	Tekukonda ...	...	...	1,600	...	1,600	6	6		
		Total ...	16,750	2,755	22,080	7,303	14,777	840	3,595		
Bellary ...	Sandur ...	Sandur ...	2,750	1,259	2,750	...	2,750	131	1,390		
		Hospet ...	1,050	826	1,050	1,050	...	50	876		
		Venkatagiri ...	1,150	409	1,150	1,150	...	55	464		
		Gound ...	5,050	942	5,050	1,000	4,050	242	1,184		
		Gurga ...	2,430	783	2,430	...	2,430	116	899	1883	
		Kanavahalli ...	4,160	878	4,160	...	4,160	200	1,078		
		Dharmapúr ...	2,150	534	2,150	...	2,150	102	636		
		Bosapúr ...	2,230	371	2,230	...	2,230	92	463		
		Konapur ...	1,960	355	1,960	...	1,960	82	437		
		Hunsehalli ...	3,760	529	3,760	1,200	2,560	157	686		
		Kakubola ...	3,240	504	3,240	3,240	...	136	640	1885	
		Joga ...	2,440	463	2,440	1,180	1,260	102	565		
		Medarhalli ...	2,380	415	2,380	2,380	...	93	508		
		Yettinahalli ...	2,403	336	2,443	...	2,443	118	454		
		Basapur ...	419	60	419	...	419	21	81		
		Hosahalli ...	1,206	167	1,206	...	1,206	59	226		
		Muthakalpeta ...	1,342	185	1,342	...	1,342	61	246		
		Appanahalli ...	1,239	172	1,239	...	1,239	60	232	1886-87	
		Oblagundi ...	2,069	287	2,069	...	2,069	100	387		
		Lingathahalli ...	486	68	486	...	486	24	92		
		Shivpúr ...	9,000	504	9,000	...	9,000	113	617		
	Western Range.	Sherbi ...	3,000	129	3,000	...	3,000	100	229	1885	
		Sunkudakal ...	7,000	99	7,000	...	7,000	54	153	1886-87	
		Malpanagudi ...	2,698	433	3,000	...	3,000	68	501		
	Bellary ...	Forest tract protected by ordinary staff.	97,553	...	...	...	...	...	...	1884	
		Total ...	163,165	10,708	65,954	11,200	54,754	2,336	13,044		
Anantapur	Penukonda ...	Kottakota ...	5,040	1,022	5,120	1,000	4,120	251	1,273	1884	
	Muchukota ...	Muchukota ...	16,000	3,032	6,400	...	6,400	602	3,634		
	Hindupur ...	Amagondapolliam.	15,360	895	16,360	30	16,330	252	1,147		
		Dokulkonda ...	2,880	83	2,880	...	2,880	31	114	1885	
		Somarazmalai ...	1,920	84	1,920	...	1,920	42	126		
	Penukonda ...	Narsampalli ...	1,280	31	1,280	...	1,280	56	87	1886	
		Mallappakonda ...	5,120	56	5,120	...	5,120	24	80		
	Dharmavaram.	Gootoor ...	3,200	67	6,400	...	6,400	176	243	1887	
		Kalyandrug, North and South.	...	...	960	...	960	42	42	1889	
		Total ...	50,800	5,270	46,440	1,030	45,410	1,476	6,746		
Nilgiris ...	Mudumalai ...	Mundumalai Plantation.	61	1,440	61	...	61	85	1,525	1883	
		Mudumalai compartments Nos. 1 to 3 in Block II and 8 camping grounds.	...	...	341	...	341	153	153	1888	
		Benne Plantation.	40	960	40	...	40	48	1,008	1886	
		Benne Plantation, part of Block No. I.	...	...	500	200	300	85	85	1888	
		Moyar	13,238	220	13,238	12,838	400	52	272	1886	

Area of Forest Tracts protected from Fire during 1888-89—*cont.*

District and Range.	Forest Tract.	On 1st April 1888.		During dry season of 1888-89.				Total cost up to 31st March 1889.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Area burnt.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Nílgiris—*cont.*	Sigur ... Kulhatti Slopes...	9,554	183	9,554	8,000	1,554	126	309	1886	
	Sigur	48,022	63	48,022	45,000	3,022	46	109		
	Naduvatam. Naduvatam Sholas.	13,825	173	12,137	5	12,132	72	245	1885	
	Northern Hay ..	23	737	3,998	18	3,980	75	812	1883	
	South-East Wynaad Reserve.	...	102	3,500	...	3,500	47	149	1886	
	Marliamund ...	172	275	211	...	211	47	322	1883	
	Aramby ...	426	243	430	...	430	53	296		
	Cairn Hill ...	492	269	559	...	559	78	347		
	Brooklands ...	...	...	176		176	12	12	1888	
	Lovedale ...	385	227	296	...	296	36	263	1883	
	Craigmore ...	...	...	299	...	299	11	11	1888	
	Doddabetta ...	904	116	991	...	991	29	145	1886	
	Ootacamund. Snowdon ...	1,053	94	1,053	...	1,053	26	120	1883	
	Jakuntha ...	370	24	373	...	373	18	42	1886	
	Muthanad ...	457	245	420	...	420	22	267	1883	
	Governor's Shola.	1,521	684	2,670	7	2,663	132	816		
	Pykara	1,055	150	1,309	50	1,259	34	184		
	Sandynulla ...	818	24	818	...	818	17	41	1886	
	Kengodu ...	415	24	451	...	451	16	40		
	Kodcoopa ...	1,622	20	1,622	...	1,622	9	29		
	Pichelbettu ...	2,991	27	2,991	200	2,791	17	44		
	Hulikal ...	6,411	321	6,411	...	6,411	83	404	1883	
	Rallia	1,154	382	848	...	848	124	506		
	Black Bridge ...	390	154	390	...	390	41	195		
	Coonoor Peak ...	540	405	540	...	540	88	493		
	Coonoor ... Lamb's Rock ...	708	296	708	...	708	55	351		
	Tiger Hill ...	328	166	328	...	328	20	186		
	Ghat Reserve ...	311	340	311	...	311	54	394		
	Hill Grove ...	187	143	187	...	187	30	173		
	Pillur Slopes ...	2,332	72	3,221	...	3,221	55	127	1887	
	Halakaray ...	13	15	420	...	420	43	58		
	Kotagiri ... Kotagiri ...	635	602	660	...	660	108	710	1885	
	Jakanaré ...	523	13	213	...	213	16	29	1886	
	Konakarai ...	918	8	6,758	...	6,758	20	28	1887	
	Do. Slopes ...	1,843	7	1,864	...	1,864	16	23		
	Kengaré ...	304	28	428	...	428	11	39		
	Vagapanai Slopes.	2,633	6	2,648	41	2,607	13	19		
	Denad	2,188	14	2,444	44	2,400	21	35		
	Kodanad ...	974	23	2,236	...	2,236	28	51		
	Ithalar	461	37	460	...	460	13	50	1886	
	Devashola ...	214	97	215	...	215	53	150	1883	
	Balakola ...	930	83	935	...	935	84	167	1886	
	Melur .. Athigarhatti ...	34	6	34	...	34	2	8	1887	
	Commandu ...	1,045	179	1,167	...	1,167	52	231	1883	
	Kundahs ...	45,269	271	45,448	5,000	40,448	66	337	1885	
	Kullar ... Burliyar ...	1,630	648	2,275	60	2,215	438	1,086	1883	
	Jakanare Slopes.	6,419	83	6,419	400	6,019	102	185	1886	
	Total ...	175,838	10,699	193,628	71,863	121,765	2,982	13,681		
	Grand Total ...	779,890	57,698	1,066,867	146,422	920,445	14,216	71,914		

ANNUAL FORM No. 63.

Forest Department, Madras, Northern Circle.

Prosecutions for Breaches of Forest Rules during 1888-89.

District.	Cases pending from 1887-88.	NEW CASES OF THE YEAR.					DISPOSED OF DURING THE YEAR.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorised felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.	Total Cases.	CONVICTIONS.		ACQUITTALS.		Total.	
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.
Ganjam ...	19	1	52	2	2	57	76	27	54	14	41	41	95	35
Vizagapatam.	16	...	271	5	4	280	296	203	402	52	159	255	561	41
Godávari ...	11	...	23	2	2	27	38	13	42	16	73	29	115	9
Kistna ...	20	...	83	4	21	108	128	74	225	18	53	92	278	36
Nellore ...	24	2	42	...	5	49	73	32	84	13	85	45	169	28
Cuddapah ...	11	9	253	95	7	364	375	284	687	84	141	368	828	7
Kurnool ...	1	31	95	11	30	167	168	109	271	53	149	162	420	6
Bellary ...	6	1	69	8	...	78	84	42	85	35	74	77	159	7
Anantapur ...	13	6	41	6	2	55	68	34	79	28	109	62	188	6
Nilgiris ...	4	1	10	1	7	19	23	16	35	3	22	19	57	4
Total ...	125	51	939	134	80	1,204	1,329	834	1,964	316	906	1,150	2,870	179

Cases compounded under section 55 of the Madras Forest Act.

														Amount for which compounded.
														RS. A. P.
Ganjam ...	...	...	124	2	1	127	127	25	27	...	...	25	27	251 5 0
Vizagapatam. N.D.	...	...	9	...	9	18	18	18	56	...	...	18	56	102 4 2
Vizagapatam. S.D.	...	...	54	...	...	54	54	54	61	...	...	54	61	20 9 0
Godávari ...	...	...	9	...	...	9	9	9	9	...	...	9	9	58 7 4
Kistna ...	...	...	87	...	15	102	102	102	132	...	...	102	132	159 14 0
Nellore ...	...	...	41	...	...	41	41	41	216	...	...	41	216	60 0 0
Cuddapah ...	...	...	118	1	1	120	120	120	354	...	...	120	354	938 0 0
Kurnool ...	...	...	5	1	1	7	7	7	9	...	...	7	9	36 5 0
Bellary ...	...	...	25	...	...	25	25	25	26	...	...	25	26	21 6 0
Anantapur ...	...	...	21	...	...	21	21	21	88	...	...	21	88	154 12 6
Nilgiris ...	...	...	5	...	...	5	5	5	7	...	...	5	7	15 0 0
Total ...	...	...	498	4	27	529	529	427	985	...	...	427	985	1,817 15 0

ANNUAL FORM NO. 64.

Forest Department, Madras, Northern Circle.

Summary of Revenue of the different districts, 1888-89.

Budget heads, Receipts.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—Timber and other produce removed from the forests by Government Agency—												
(a) Timber	...	8,817	38	28	20	...	339	432	687	81	10,860	21,302
(b) Firewood and charcoal	...	293	..	18	39	41,853	137	44	1,835	1	17,766	61,986
(c) Bamboos	...	...	...	...	..	...	...	..	1,615	...	...	1,615
(d) Sandal-wood ...	...	...	...	...	...	...	..	...	...	...	6,965	6,965
(e) Grass and other minor produce	...	8	...	...	...	4,186	1,310	99	55	228	2,542	8,428
II.—Timber and other produce removed from the forests by consumers or purchasers—												
(a) Timber	...	507	971	34,755	24,062	7,325	21,115	39,199	5,512	3,332	3,855	1,40,633
(b) Firewood and charcoal.	...	10,191	2,920	5,999	8,457	352	40,405	31,440	4,819	1,022	2,698	1,08,303
(c) Bamboos	...	2,659	2,145	14,395	1,851	...	8,318	18,387	59	338	2,907	51,059
(d) Grazing and fodder grass.	...	...	20	1,456	49,442	14,769	2,018	6,232	442	957	2,123	77,459
(e) Other minor produce	...	777	552	8,393	12,801	5,700	30,878	9,801	25,348	23,046	439	1,17,735
III.—Confiscated drift and waif-wood	...	65	112	8,368	286	38	798	1,937	38	879	10	12,531
IV.—Revenue from forests not managed by Government...	...	20	...	...	...	...	...	...	...	...	...	20
V.—Miscellaneous—												
(a) Fines and forfeitures.	...	6	1	3	25	...	69	...	51	...	7	162
(b) Refunds	32	156	5	22	33	15	19	71	...	...	22	375
(c) Other sources	23	332	126	3,153	1,248	228	1,480	252	100	498	907	8,347
Total, Receipts ...	55	23,831	6,890	76,590	98,264	74,466	1,06,886	1,07,894	40,561	30,382	51,101	6,16,920

MADRAS,
11th June 1889.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1888-89.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A.—Conservancy and Works.												
I.—Timber and other produce removed from the forests by Government Agency—												
(*a*) Timber ...	...	14,501	10	29	...	...	15,515	243	83	4	2,892	33,277
(*b*) Firewood and charcoal ...	...	409	...	14	8	24,394	33	48	507	...	13,111	38,524
(*c*) Bamboos ...	...	...	...	...	...	...	107	...	442	...	...	549
(*d*) Sandalwood ...	...	...	...	...	...	...	...	...	...	...	1,830	1,830
(*e*) Grass and other minor produce.	...	18	...	...	...	2,022	402	361	12	292	1,428	4,535
II.—Timber and other produce removed from the forests by consumers or purchasers ...	...	2,055	1,656	5,039	2,213	208	5,590	8,807	224	762	2,032	28,586
III.—Confiscated drift and waif wood ...	...	1,756	18	1,160	9	2	70	327	...	17	...	3,359
IV.—Revenue from forests not managed by Government—												
V.—Rent of leased forests, and payments to shareholders in forests managed by Government ...	...	...	...	...	...	...	...	...	10,000	...	3,500	13,500
VI.—Live stock, stores, tools and plant—												
(*a*) Purchase of cattle ...	...	...	...	6,553	...	...	...	...	...	...	...	6,553
(*b*) Feed and keep of cattle ...	...	...	...	1,685	...	...	...	...	...	...	1,626	3,311
(*c*) Stores, tools and plant ...	110	186	56	768	2,135	17,630	99	337	199	386	302	22,208
VII.—Communications and buildings—												
(*a*) Roads and bridges ...	...	807	...	2,475	212	...	2,448	559	...	4	2,729	9,234
(*b*) Buildings ...	...	2,575	37	338	1,307	571	1,806	5,023	296	678	1,826	14,457
(*c*) Other works ...	...	27	...	...	116	...	159	...	...	...	...	302
VIII.—Demarcation, improvement and extension of forests—												
(*a*) Demarcation ...	...	2,129	645	4,158	4,416	2,992	3,316	1,566	543	862	2,431	23,058
(*b*) Compensation for land and rights ...	12	25	...	504	6,354	468	...	...	50	939	98	8,450
(*c*) Surveys and working plans ...	360	558	...	49	29	360	24	173	60	...	...	1,613
(*d*) Plantations ...	50	103	...	122	3,014	4,582	1,655	269	287	629	7,223	17,934
(*e*) Protection from fire ...	...	671	...	298	800	803	4,010	840	2,336	1,476	2,982	14,216
(*f*) Other works ...	...	200	2	1	990	127	1,098	14	479	73	2,003	4,987
IX.—Miscellaneous—												
(*a*) Refunds ...	1	767	7	40	365	536	357	133	28	...	21	2,255
(*b*) Law charges ...	5	...	1	1	8	136	8	20	...	27	210	416
(*c*) Other charges.	197	234	31	39	55	14	55	345	115	16	43	1,144
Total A.—Conservancy and works	735	27,021	2,463	23,273	22,031	54,845	36,752	19,065	15,661	6,165	46,287	2,54,298

Madras,
11th June 1889.

(Signed) C. G. Douglas,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1888-89.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nílgiris.	Total.
B.—"*Establishments.*"	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Brought forward, Total A. "Conservancy and Works."	735	27,021	2,463	23,273	22,031	54,845	36,752	19,065	15,661	6,165	46,287	2,54,298
I.—Salaries—												
(*a*) Conservators ...	12,879	...	...	...	...	...	...	..	...	..	...	12,879
(*b*) Superior officers ...	16,594	7,707	1,194	5,400	6,206	6,600	5,650	4,590	1,250	1,560	1,537	58,288
(*c*) Subordinate forest and depôt establishments.	4,033	4,311	2,530	7,470	7,227	6,163	10,376	6,001	5,566	5,850	7,687	67,214
(*d*) Office establishments.	13,759	2,093	848	1,514	1,734	2,325	2,242	1,483	1,127	1,255	2,045	30,425
(*e*) Deputation and special allowances.	...	...	...	...	...	...	...	...	...	...	...	...
II.—Travelling allowances—												
(*a*) Conservators ...	3,380	...	...	...	...	...	...	...	...	...	...	3,380
(*b*) Superior officers ...	3,400	1,909	49	1,367	1,795	1,717	1,420	1,731	508	471	640	15,007
(*c*) Subordinate forest and depôt establishments.	1,279	1,530	517	2,948	2,097	1,563	2,487	2,102	1,388	1,606	2,294	19,811
(*d*) Office establishments.	1,857	311	207	222	387	200	314	212	151	367	66	4,294
III.—Contingencies—												
(*a*) Stationery ...	18	53	3	1	...	11	...	6	...	...	8	100
(*b*) Carriage of tents and records.	470	111	129	69	195	102	93	30	68	99	3	1,369
(*c*) Rents, rates and taxes.	198	75	20	180	60	...	30	...	160	22	385	1,130
(*d*) Pay of police guards.	...	...	...	...	...	...	...	...	...	...	...	...
(*e*) Official postage ...	663	301	99	322	374	382	333	305	161	186	181	3,307
(*f*) Sundries	1,336	205	58	114	89	198	80	82	58	254	566	3,040
Total B. "Establishments" ...	59,866	18,606	5,654	19,607	20,164	19,261	23,025	16,542	10,437	11,670	15,412	2,20,244
Grand Total of expenditure ...	60,601	45,627	8,117	42,880	42,195	74,106	59,777	35,607	26,098	17,835	61,699	4,74,542

MADRAS,
11th June 1889.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 65.

Forest Department, Madras, Northern Circle.

Outstandings and Liabilities on account of Contractors and Disbursers for 1888-89.

District.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE.	
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Department (Liabilities).
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator, Northern Circle	...	1,458 2 0	1,458 2 0	193 11 3	1,269 11 1	1,463 6 4	5 4 4	...
Two-fifths of Examiner's office	...	344 0 1	344 0 1	24 2 4	324 9 2	348 11 6	4 11 5	...
Forest Settlement-officer, Nellore and Bellary ...	...	254 10 4	254 10 4	2 10 4	271 0 0	273 10 4	19 0 0	...
Do. do. Kurnool, Kistna and Godavari ...	...	.....	.....	... ..	.....	.....	.....	...
Forest School, Dehra Dun	...	141 4 9	141 4 9	171 4 9	30 0 0	141 4 9	.....	...
Ganjam	...	54,493 6 11	54,493 6 11	3,665 13 8	53,896 9 4	57,562 7 0	3,069 0 1	...
Vizagapatam	...	6,045 2 8	6,045 2 8	29 7 2	6,662 6 10	6,691 14 0	646 11 4	...
Godávari	...	25,637 13 10	25,637 13 10	1,929 2 11	26,210 7 11	28,139 10 10	2,501 13 0	...
Kistna	...	26,790 6 10	26,790 6 10	1,186 4 0	26,698 5 6	27,884 9 6	1,094 2 8	...
Nellore	...	78,250 12 0	78,250 12 0	28,042 10 1	51,210 1 9	79,252 11 10	1,001 15 10	...
Cuddapah	...	36,691 2 1	36,691 2 1	271 13 10	36,926 7 6	37,198 5 4	507 3 3	...
Kurnool	...	15,528 0 3	15,528 0 3	2,114 6 10	14,125 4 1	16,239 10 11	711 10 8	...
Bellary	...	11,167 2 3	11,167 2 3	226 14 4	11,387 15 2	11,614 13 6	447 11 3	...
Anantapur	...	10,870 6 6	10,870 6 6	228 7 11	10,978 0 0	11,206 7 11	336 1 5	...
Nilgiris	...	19,149 5 4	19,149 5 4	1,594 3 8	18,833 6 2	20,427 9 10	1,278 4 6	...
Total ...	...	2,86,821 11 10	2,86,821 11 10	39,681 1 1	2,58,764 4 6	2,98,445 5 7	11,623 9 9	...

MADRAS,
11th June 1889.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Northern Circle.

Revenue received and Outstandings on account of Revenue during 1888-89.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Direction	Timber and other produce ...	...	54 3 7	54 3 7	54 3 7	...
Ganjam	Do. ...	1,651 7 4	22,611 10 4	24,263 1 8	23,831 7 4	431 10 4
Vizagapatam ...	Do. ...	...	6,889 15 1	6,889 15 1	6,889 15 1	...
Godávari	Do. ...	...	76,589 5 2	76,589 5 2	76,589 5 2	...
Kistna	Do. ...	1,746 0 1	98,728 15 4	1,00,474 15 5	98,263 7 7	2,211 7 10
Nellore	Do. ...	75 10 0	74,461 6 5	74,537 0 5	74,466 5 2	70 11 3
Cuddapah	Do. ...	18 12 0	1,06,931 5 4	1,06,950 1 4	1,06,886 15 6	63 1 10
Kurnool	Do. ...	...	1,07,894 7 4	1,07,894 7 4	1,07,894 7 4	...
Bellary	Do. ...	2 4 0	40,559 0 11	40,561 4 11	40,561 4 11	...
Anantapur	Do. ...	...	30,382 6 4	30,382 6 4	30,382 6 4	...
Nilgiris	Do. ...	238 3 11	51,895 12 3	52,134 0 2	51,100 15 8	1,033 0 6
	Total ...	3,732 5 4	6,16,998 8 1	6,20,730 13 5	6,16,920 13 8	3,809 15 9

MADRAS,
11th June 1889.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 67.

Forest Department, Madras, Northern Circle.

Financial results of the year 1888-89.

District.	Timber and other produce removed from the forests by Government Agency.		Other revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjam	9,118	27,548	14,719	8,895	16,456	23,837	52,899
Vizagapatam ...	38	10	6,854	5,741	4,790	6,892	10,541
Godávari	46	7,307	76,551	20,251	22,594	76,597	50,152
Kistna	59	8	98,212	17,824	31,635	98,271	49,467
Nellore	46,039	45,843	28,434	5,519	30,016	74,473	81,378
Cuddapah	1,786	23,623	1,05,107	19,282	24,145	1,06,893	67,050
Kurnool	575	652	1,07,326	23,014	19,213	1,07,901	42,879
Bellary	4,192	2,571	36,373	12,351	16,024	40,565	39,046
Anantapur	310	296	30,076	9,507	12,880	30,386	22,683
Nílgiris	38,133	30,423	12,972	11,575	24,549	51,105	66,547
Total ...	1,00,296	1,38,281	5,16,624	1,33,959	2,02,302	6,16,920	4,74,542

Annual Form No. 68.

Forest Department, Madras, Northern Circle.

Trees felled by Government Agency during the year 1888-89.

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Balance at the end of the year.	Remarks.
									Outturn.
Ganjam ...	Gayagonda range.	Sál	40	1,194	1,234	Converted...	1,194	40	2,563 logs.
		Sajo	5	...	5	...	...	5	
		Dhau	8	...	8	...	...	8	
		Blackwood	...	4	4	Converted...	2	2	4 logs.
		Miscellaneous ...	15	165	180	Do. ...	180	...	350 ,,
	Jagganathprasad range.	Sál	...	903	903	Do. ...	903	....	1,584 ,,
		Miscellaneous ...	...	1	1	Do. ...	1	...	1 ,,
	Buguda range ...	Sál	...	329	329	Do. ...	279	50	508 ,,
	Chokapad range.	Sál	...	817	817	Do. ...	817	...	1,976 ,,
		Piasál	...	2	2	Do. ...	2	...	5 ,,
		Sajo	...	14	14	...	...	14	
		Ebony	...	3	3	...	...	3	
		Miscellaneous ...	...	18	18	Converted...	5	13	11 logs.
	Bodoborosingi range.	Sál	...	400	400	Do. ...	400	...	1,154 ,,
		Sajo	...	1	1	Do. ...	1	...	3 ,,
	Pondokol range.	Sál	...	33	33	Do. ...	33	...	4 ,, and firewood.
		Sajo	...	16	16	Do. ...	16	...	12 ,,
		Dhau	...	13	13	Do. ...	13	..	7 ,,
		Piasál	...	1	1	Do. ...	1	...	1 ,,
		Satinwood	...	1	1	Do. ...	1	...	2 ,,
		Miscellaneous ...	...	26	26	Do. ...	26	...	26 ,,
	All ranges ...	Bamboos	...	12,160	12,160	Used departmentally.	12,160	...	
		Total, Ganjam ...	68	16,101	16,169	...	16,034	135	
Vizagapatam ..	Palkonda range.	Sál	...	29	29	Converted...	29	...	29 rafters.
		Nallamaddi	...	8	8	Do. ...	8	...	8 logs.
		Miscellaneous ...	...	11	11	Do. ...	11	...	11 ,,
		Total, Vizagapatam	...	48	48	...	48	...	
Godávari ...	Bhadrachalam	Ironwood	154	138	292	Converted...	156	136	156 logs.
		Nallamaddi ...	128	177	305	Do. ...	123	182	123 ,,
		Chiriman ...	6	40	46	Do. ...	31	15	31 ,,
		Miscellaneous ...	39	20	59	Do. ...	40	19	40 ,,
		Total, Godávari ...	327	375	702	...	350	352	
Kistna ...	Guntúr range ...	Babul	...	255	255	Converted...	255	...	Poles and fuel.
		Total, Kistna ...	...	255	255	...	255	...	
Cuddapah ...	Nallamalai forest.	Teak	...	2	2	Converted...	2	...	2 logs 15 cubic feet.
	Upalapaya ...	Palmyra	...	10	10	Sold ...	10	...	
	Kodúr and Rayachoti.	Bamboos	...	7,461	7,461	Used departmentally.	550	6,911	
		Total, Cuddapah ...	...	7,473	7,473	...	562	6,911	
Kurnool ...	Nandyal forest...	Yegi	...	20	20	Converted...	20	...	447 felloes. 903 spokes.
		Total, Kurnool ...	...	20	20	...	20	...	
Bellary ...	Sandúr ...	Bamboos	....	58,187	58,187	Sold ...	58,187	...	
		Total, Bellary ...	....	58,187	58,187	...	58,187	...	

Trees felled by Government Agency during the year 1888-89—*cont.*

District.	Range, forest or working circle.	Description of trees.	Number of trees						Remarks.
			On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year. How disposed of.	Disposed of during the year. Number.	Balance at the end of the year.	
Anantapur	Penukonda range.	Palmyra	...	12	12	Converted and used departmentally.	12	..	Outturn. 80 rafters. 32 reepers.
		Margosa	...	4	4	Do	4	.	30 logs.
	Khojjapalle forest.	Palmyra	...	3	3	Used departmentally.	3	...	Demarcation posts.
	Muchukota forest.	Yepi	..	1,575	1,575	Sold ..	1,575	...	
		Total, Anantapur ...	..	1,594	1,594	...	1,594		
Nílgiris ...	Cairn Hill working circle.	Eucalyptus ...	...	2,049	2,049	Converted...	2,049	...	Outturn. Lots. 468½ Cubic feet stacked or solid. 46,850
	Aramby working circle.	Do. ...	...	3,811	3,811	Do. ...	3,811	...	636½ 63,650
	Governor's shola working circle.	Do. ...	...	191	191	Do. ...	191	..	40 4,000
	Coonoor Peak working circle.	Do. ...	...	4,136	4,136	Do. ...	4,136	...	1,469½ 146,925 fire-wood. 2,184 2,184 drag poles.
	Bandy shola working circle.	Acacia	...	410	410	Do. ...	410	...	185 18,500 fire-wood. 59 59 planks. 272 136 rafters.
	Bleakhouse working circle.	Eucalyptus ...	...	112	112	Do. ...	112	...	47½ 4,750 fire-wood. 680 680 poles. 260 130 rafters. 3 3 planks.
	Rallia working circle.	Eucalyptus ...	...	517	517	Do. ...	1,322	...	333½ 33,350
		Acacia	...	805	805				
	Benné reserved forest.	Teak	...	392	392	Do. ..	392	...	444 11,263
		Vengai	...	156	156		156	...	142 4,640
		Blackwood ...	...	59	59		59	...	59 2,066
		Mutti	...	140	140		140	...	152 5,941
		Total, Nílgiris ...	...	12,778	12,778	...	12,778	...	
Abstract ...	...	Teak	...	394	394	...	394	...	
		Sál	40	3,705	3,745	...	3,655	90	
		Blackwood	...	63	63	...	61	2	
		Ironwood	154	138	292	...	156	136	
		Yepi	...	1,575	1,575	...	1,575	...	
		Yegi	...	179	179	...	179	...	Includes "*Vengai*," Tamil "*Piasál*," Uriya.
		Nallamaddi	133	356	489	...	288	201	Includes "*Matti*," Tamil "*Sajo*," Uriya.
		Chiriman	14	53	67	...	44	23	Includes "*Dhau*," Uriya.
		Satinwood	...	1	1	...	1	...	
		Ebony	...	3	3	...	...	3	
		Babúl	...	255	255	...	255	...	
		Margosa	..	4	4	...	4	...	
		Palmyra	...	25	25	...	25	...	
		Eucalyptus ...	...	10,816	10,816	...	10,816	...	
		Acacia	...	1,215	1,215	...	1,215	...	
		Miscellaneous ...	54	241	295	...	263	32	
		Bamboos ...	...	77,808	77,808	...	70,897	6,911	
		Total ...	395	96,831	97,226	...	89,828	7,398	

ANNUAL FORM

Forest Department,

Statement of Timber and other Produce cut and collected

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
Ganjam ...	Gayagonda forests.	Sál logs	215	1,964	2,578	42,206
		Do. sleepers	...	...	2,798	7,273
	Chondorgiri forest.	Sál planks	...	...	127	...
	Gundribadi and Gogodo forests.	Sál slabs	...	...	2,160	...
		Do. demarcation posts ...	3,688	2,171	12	8
		Piasál logs ...	1	7	...	...
		Sajo do. ...	4	60	...	...
		Ebony do. ...	4	24	...	...
		Blackwood do. ...	...	...	4	50
		Miscellaneous logs ...	17	335	350	540
	Hatiguda F.D. ...	Planks	...	...	64	...
		Sál sleepers	...	...	150	525
	Kodologoda F.D.	Sál logs	...	...	150	2,700
		Do. sleepers	...	...	42	147
		Do. slabs	...	...	80	...
	Talikomono F.D.	Sál sleepers	...	...	400	1,200
		Do. slabs	...	...	715	...
	Gayagonda F.D.	Sál logs	...	...	807	12,810
		Do. sleepers	...	...	2,730	6,596
		Do. slabs	...	...	2,318	...
		Blackwood logs ...	...	...	3	39
		Miscellaneous logs ...	...	...	1	14
	Tilsingi F.D. ...	Sál logs and poles ...	...	...	98	564
		Do. planks	...	...	46	...
		Do. slabs	...	...	242	...
		Do. demarcation posts...	...	...	120	83
		Blackwood logs ...	...	...	1	11
		Miscellaneous logs ...	...	...	356	540
		Do. planks ...	...	...	197	...
	Chondorgiri F.D.	Sál poles	...	..	48	240
		Do. planks	...	...	18	...
	Dongabhumi F.D....	Sál sleepers	...	...	303	1,060
	Paichalia F.D. ...	Sál logs	...	...	1,584	22,201
		Do. sleepers	...	...	1,001	3,054
		Do. slabs	...	...	1,272	...
		Miscellaneous logs ...	...	...	1	14
	Rambha F.D. ...	Sál logs	...	...	868	13,075
		Do. sleepers	...	...	2,344	7,414

No. 69.

Madras, Northern Circle,

by Government Agency during the year 1888-89.

Total.		Disposed of during year.			Balance at end of year.		Remarks.
Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
		Sold	88	590			
		Used departmentally.	26	356			
		Converted into sleepers.	1,362	22,966			
		Converted into planks.	14	305			
2,793	44,170	Sent to Gopalpur D	4	71	196	3,568	
		Do. Chondorgiri ...	48	240			
		Do. Tilsingi ...	98	564			
		Do. Gayagonda ...	807	12,810			
		Do. Kotulogodo ...	150	2,700			
		Sent to Russelcondah.	928	2,708			
		Do. Dongabhumi.	303	1,060			
2,798	7,273	Do. Talikomono ...	400	1,200	400	60	
		Do. Gayagonda ...	617	1,720			
		Do. Hatiguda ...	150	525			
		Sent to Chondorgiri ...	18	...			
127	...	Do. Tilsingi ...	46	...	...	...	
		Used departmentally.	63	...			
		Sold	58	...			
		Used departmentally.	2	...			
2,160	...	Sent to Gayagonda ...	1,325	...	50	...	
		Do. Tilsingi ...	27	...			
		Do. Talikomono ...	698	...			
3,100	2,179	Used departmentally.	2,980	2,096			
		Sent to Tilsingi ...	120	83	...	...	
1	7	Sold	1	7	...	...	
4	60	Do.	2	12	2	48	
4	24	Do.	4	24	...	...	
4	50	Sent to Tilsingi ...	1	11	...	...	
		Do. Gayagonda ...	3	39			
		Sold	4	46			
367	875	Loss on remeasurement	...	10	1	99	
		Converted into planks.	6	180			
		Sent to Tilsingi ...	356	540			
64	...	Do. ...	64	...	...	...	
150	525	... ...	...	...	150	525	
150	2,700	Converted into sleepers.	21	336	129	2,364	
42	147	.....	...	...	42	147	
80	...	.....	...	...	80	...	
400	1,200	Sent to Russelcondah.	400	1,200	...	...	
715	...	.....	...	...	715	...	
807	12,810	Converted into sleepers.	707	11,528	100	1,282	
2,730	6,596	Sent to Russelcondah.	2,722	6,566	8	30	
2,318	...	Sold	86	...	2,101	...	
		Sent to Tilsingi ...	131	...			
3	39	Used departmentally.	1	13	...	...	
		Sent to Russelcondah.	2	26			
1	14	Used departmentally.	1	14	...	...	
98	564	Do. ...	98	564	...	...	
46	...	Do. ...	2	...	44	...	
242	...	Sent to Talikomono ...	17	...	73	...	
		Used departmentally.	152	...			
120	83	.....	...	...	120	83	
1	11	Used departmentally.	1	11	...	...	
356	540	Converted into planks.	24	506	2	34	
		Used departmentally.	330	...			
197	...	Do. ...	129	...	68	...	
48	240	Do. ...	48	240	...	...	
18	...	Do. ...	18	...	...	...	
303	1,060	Sent to Russelcondah.	303	1,060	...	...	
		Do. ...	1	13			
1,584	22,201	Sent to Rambha ...	868	13,075	20	270	
		Converted into sleepers.	695	8,843			
1,001	3,054	Sent to Rambha ...	1,001	3,054	...	...	
1,272	...	Do. ...	1,272	...	...	...	
1	14	Sent to Gayagonda ...	1	14	...	...	
868	13,075	Converted into sleepers.	868	13,075	...	...	
2,344	7,414	Sent to Russelcondah.	1,943	6,150	174	604	
		Do. Dongabhumi.	227	660			

Statement of Timber and other Produce cut and collected

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
Ganjam—*cont.*	Rambha F.D.	Sál slabs	...	...	4,470	...
	Dongabhumi	Sál sleepers	...	...	227	660
	Buguda	Sál logs	...	...	508	4,361
		Do. sleepers	...	...	94	181
	Kriyamba	Sál slabs	...	...	144	...
	Chokapad	Sál logs	1,660	26,201	1,977	11,691
	Rambha	Sál sleepers	...	...	2,206	3,230
		Miscellaneous planks	...	...	310	...
	Darpangia and Gullery.	Sál demarcation posts	1,458	1,092	60	20
		Do. do. boards.	...	...	70	...
		Do. slabs	...	...	3,695	...
		Piasál logs	...	...	8	113
		Miscellaneous logs	16	64	11	125
	Baibali and Teleki.	Sál logs	...	...	1,182	8,543
	Kaliamba	Sleepers	...	...	1,198	2,033
	Vinjagheri	Slabs	...	...	1,110	...
		Demarcation posts	...	...	458	321
		Sajo	...	...	7	113
	Hatiguda	Slabs	...	...	95	...
	Pipalapanka	Sál logs	1,472	17,619	7	111
	Dhougam	Sál sleepers	...	...	215	507
		Do. slabs	...	...	396	...
		Demarcation posts	...	...	1,000	770
		Sajo logs	22	411	12	205
		Satin wood logs	7	79	4	36
		Piasál logs	...	...	1	8
		Dhau do.	...	...	7	98
		Miscellaneous logs	4	36	28	294
	Berhampore	Sál logs	77	663	...	...
		Do. sleepers	4	12	...	...
		Miscellaneous logs	3	30	...	...
		Total timber	8,052	50,768	43,488	155,784
	Gundribadi and Gogodo.	Firewood	Tons 30	2,100	...	...
	Darpangia and Gullery.	Firewood	...	...	Tons 1	70
		Charcoal	...	...	„ 2¼	900
	Vinjagheri	Firewood	Tons 200	14,000	„ 1,598	111,958
	Dhougam	Firewood	„ 66½	4,655	„ 147¼	10,343
		Total fuel	Tons 296½	20,755	Tons 1,749	123,271
	Gundribadi and Gogodo.	Bamboos	...	...	8,440	...
	Gayagonda F.D.	Bamboos	...	...	600	...
	Tilsingi F.D.	Do.	...	...	350	...
	Dongabhumi F.D.	Do.	...	...	10,080	...
	Paichalia	Do.	...	...	3,680	...
	Darpangia and Gullery.	Do.	...	...	500	...
		Total bamboos	...	...	23,650	...

by Government Agency during the year 1888-89—*cont.*

Total.		Disposed of during year.			Balance at end of year.		Remarks.
Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
4,470	...	Sold	107	...	4,279	...	
		Sent to Tilsingi ...	84	...			
227	660	Sent to Russelcondah.	227	660	...	...	
508	4,361	Converted into sleepers.	94	726	414	3,635	
94	181	... ...	...	...	94	181	
144	...	... ...	...	...	144	...	
3,637	37,892	Written off stock ...	1,447*	21,623	633	7,146	* Bd's. Pro. F. No. 481 of 10th Sept. 1888.
		Sent to Gopalpur ...	78	1,491			
		Do. Russelcondah.	333	2,395			
		Converted into sleepers.	1,142	5,604			
		Used departmentally.	4	33			
2,206	3,230	Sent to Russelcondah.	2,035	2,974	171	256	
310	...	... ...	...	...	310	...	
1,518	1,112	Sent to Bodoborosinghi range.	458	321	60	21	
		Sent to Pondokol ...	1,000	770			
70	...	... ...	...	...	70	...	
3,695	...	Converted into demarcation boards.	50	...	3,585	...	
		Converted into demarcation posts.	60	...			
8	113	Used departmentally.	3	53	5	60	
27	189	... ...	...	...	27	189	
1,182	8,543	Converted into sleepers.	911	6,478	243	1,903	
		Sent to Russelcondah.	28	162			
1,198	2,033	Do. ...	1,025	1,742	173	291	
1,110	...	Sent to Hatiguda ...	95	...	1,015	...	
458	321	... ...	...	...	458	321	
7	113	Sent to Russelcondah.	4	52	3	61	
95	...	... ...	...	...	95	...	
1,479	17,730	Sent to Gopalpur ...	75	213	718	14,530	
		Do. Surada ...	246	991			
		Converted into sleepers.	198	786			
		Burnt	242	1,210			
215	507	Sent to Surada ...	200	485	15	22	
396	...	... ...	...	...	396	...	
1,000	770	Used departmentally.	1,000	770	...	...	
34	616	Sent to Surada ...	7	86	27	530	
11	115	Do. ...	9	99	2	16	
1	8	... ...	...	...	1	8	
7	98	... ...	...	...	7	98	
32	330	Sent to Surada ...	2	16	30	314	
77	663	Sent to Berhampore...	23	225	10	...	
		Do. Gopalpur ...	443	438			
4	12	Stolen	4	12	...	...	
3	30	Stolen	1	11	...	...	
		Sent to Berhampore...	2	19			
51,540	206,552		34,080	167,856	17,460	38,696	
Tons 30	2,100	... ...	...	...	Tons 30	2,100	
„ 1	70	Sold	1	70	...	...	
„ 2¼	900	... ...	...	...	2¼	900	
1,798	125,958	Sold	60	4,208	„ 1,725½	120,875	
		Sent to Berhampore.	12½	875			
214¼	14,998	Sold	130¼	9,067	84	5,931	
Tons 2,045½	144,026		Tons 203¾	14,220	1,841¾	129,806	
8,440	...	Used departmentally.	1,090	...	...	...	
		Sent to Tilsingi ...	350				
		Do. Gayagonda ...	600				
		Do. Dongabhumi.	6,400				
600	...	Used departmentally.	600	...	...	...	
350	...	Do. ...	350	...	...	...	
10,080	...	... ...	...	...	10,080	...	
3,680	...	Sent to Dongabhumi.	3,680	...	...	...	
500	...	... ...	...	...	500	...	
23,650	...		13,070	...	10,580	...	

Statement of Timber and other Produce cut and collected

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
Ganjam—*cont.*	Kriyamba ...	Mangoes	...	...	...	Md. 1
	Dhougam ...	Mohoło flowers ...	...	...	...	Mds. 40
		Total minor produce ...	...	...	...	Mds. 41
Vizagapatam.	Palkonda ...	Sál rafters	...	...	29	43½
		Nallamaddi logs ...	...	...	8	84
		Miscellaneous rafters ...	...	...	11	16½
		Total timber ...	...	...	48	144
Godávari...	Rékapalli ...	Konda Tangadu logs ...	86	931	Tons 156	1,942
		Nallamaddi „ ...	40	422	123	1,321
		Chiriman „ ...	13	176	31	381
		Miscellaneous „ ...	5	57	40	469
		Total timber ...	144	1,586	350	4,113
		Firewood	...	1,296	...	756
		Total fuel ...	...	1,296	...	756
Kistna ...	Bezváda	Thumma poles	105	105	82	82
	Guntúr	Do.	...	...	123	20
	Bezváda	Thorns	...	...	Faggots 72	360
	Palnad	Do.	...	...	„ 560	2,800
		Total timber ...	105	105	837	3,262
	Bezváda ...	Firewood	...	...	...	20
	Krósúr	Do.	...	...	...	9,320
	Guntúr	Do.	...	...	...	200
	Bápatla	Do.	...	...	...	10
	Palnád	Do.	...	...	...	500
		Total fuel ...	...	...	...	10,050
Nellore ...	Stríharikóta ...	Pegs	...	...	14,500	7,250
		Stakes	...	...	9,400	9,400
		Poles	...	...	8	16
	Stríharikóta ...	Firewood. Chinna Mottalu ...	No. 75	25	840	280
		Firewood. Matchalu	„ 53,995	5,400	834,680	83,468
		Firewood. Rasi	„ 29,540	1,738	535,925	31,525
		Firewood. Sannam	„ 139,120	1,391	794,430	7,944
		Firewood. Thopudu	„ 23,330	467	19,200	384
		Firewood. Sulli bundles ...	„ 53,697	71,596	51,063	68,084
	Kávali	Firewood	...	...	Cart loads 5	100
	Dugarazpatam ...	Casuarina wood ...	Tons 4,708	188,320	Tons 721	28,840
		Total fuel ...	...	268,937	...	237,291
	Stríharikóta ...	Rattans	...	...	Bds. 103	Mds. 309
		Cheyroot	...	Mds. 756	...	„ 140
		Sarsaparilla	...	„ 219	...	„ 178
		Nux vomica	...	...	...	„ 787
		Orchella	...	Mds. 7	...	„ 1
		Soapnuts	...	...	...	„ 1,070
		Iswara	...	Mds. 27	...	...
		Vishabuddy	...	„ 8	...	...
		Kukkapala	...	„ 9	...	...
		Tangedu	...	„ 63	...	...
		Honey	...	...	...	13
		Total minor produce ...	...	Mds. 1,089	Bds. 103	2,498
Cuddapah ...	Kódúr ...	Red sanders, roots and stumps.	...	...	Tons. 1,920	92,160
		Red sanders, poles ...	No. 164	164	No. 81	81
		Teak	3	3	...	...

by Government Agency during the year 1888-89—*cont.*

Total.		Disposed of during year.			Balance at end of year.		Remarks.
Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
...	Mds. 1	Sold	...	Mds. 1	...	..	
...	„ 40	Do.	...	„ 40	.	...	
...	Mds. 41		...	Mds. 41	...	...	
29	43½	Sent to Rajam ...	29	43½	...	...	
8	84	Do. ...	8	84	...	...	
11	16½	Do. ...	11	16½	...	...	
48	144		48	144	...	..	
242	2,873	.....	...	...	242	2,873	
163	1,743	.....	...	...	163	1,743	
44	557	.....	...	...	44	557	
45	526	.....	...	...	45	526	
494	5,699		...	...	494	5,699	
...	2,052	Sold to Public Works Department.	...	486	...	1,566	
...	2,052		...	486	...	1,566	
187	187	Lost	25	25	...	...	As fence to Bezváda reserved forests.
		Sold	81	81			
		Used departmentally	81	81			
123	20	Sold	123	20	...	...	
Faggots 72	360	Do.	Faggots 72	360	...	...	
„ 560	2,800	Do.	„ 560	2,800	...	...	
942	3,367		942	3,367	...	...	
...	20	Sold	...	20	...	...	
...	9,320	Do.	...	9,320	...	...	
...	200	Do.	...	140	...	60	
...	10	Do.	...	10	...	...	
...	500	Do.	...	500	...	...	
...	10,050		...	9,990	...	60	
14,500	7,250	Supplied to Salt Department	14,500	7,250	...	...	½ cubic foot each estimate.
9,400	9,400		9,400	9,400	...	...	1 cubic foot each estimate.
8	16	Sent to depôt ...	8	16	...	...	
915	305	Sent to Madras depôt.	915	305	...	...	
888,675	88,868	Do. ...	542,255	54,226	346,420	34,642	
565,165	33,263	Do. ...	535,150	31,480	30,315	1,783	
933,550	9,335	Do. ...	797,975	7,980	135,575	1,355	
42,530	851	Do. ...	19,665	394	22,865	457	
104,760	139,680	Do. ...	78,201	104,268	26,559	35,412	
Cart lds. 5	100	Sold	Cart lds. 5	100	...	...	
Tons 5,429	217,160	Sent to Madras depôt.	Tons 607	190,240	Tons 673	26,920	
		Sold	„ 4,012				
		Wastage	„ 137				
...	506,228		...	405,659	...	100,569	
Bds. 103	Mds. 309	Sent to Madras depôt	Bds. 103	Mds. 309	...	...	Estimate 1 bundle = 3 maunds = 1,000 rattans.
...	„ 896	Sold	...	„ 696	...	Mds. 200	
...	„ 397	Sent to Madras depôt	...	„ 219	...	„ 178	
...	„ 787	Do. ...	...	...	...	„ 787	
...	„ 8	Sold	...	Mds. 8	...	...	
...	„ 1,070	Do.	...	„ 1,070	...	...	
...	„ 27	... ..	...	...	...	Mds. 27	
...	„ 8	.....	...	...	...	„ 8	
...	„ 9	.....	...	...	...	9	
...	„ 63	.....	...	...	...	„ 63	
...	„ 13	.....	...	...	...	„ 13	
Bds. 103	Mds. 3,587		Bds. 103	Mds. 2,302	...	Mds. 1,285	
Tons 1,920	92,160	Taken to depôt ...	Tons 1,900	91,200	Tons 20	960	
		Sold	No. 90	90			
No. 245	245	Used departmentally.	„ 103	103	No. 29	29	
		Destroyed by white-ants.	„ 23	23			
„ 3	3	Sold	„ 3	3	...	...	

Statement of Timber and other Produce cut and collected

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
Cuddapah —*cont.*	Kodúr—*cont.* ...	Miscellaneous	No. 135	375	No. 118	118
	Rajampôt ...	Red sanders posts ...	„ 350	350	...	...
		Yellama	„ 280	280	...	...
	Badvél ...	Teak logs	...	...	No. 2	15
	Ráyachóti ...	Red sanders	No. 100	100	„ 2,829	2,829
		Teak	...	...	„ 8	8
		Miscellaneous	...	...	„ 1,073	1,078
	Váyalpád ...	Thumba slabs	No. 2,030	2,030	„ 828	833
	Cuddapah ...	Palmyra trees	...	...	„ 12	24
		Yellama	...	...	„ 8	400
		Total, Timber ...	No. 3,062	3,302	...	97,546
	Kódúr ...	Firewood	Tons 85	4,760	Tons 60	3,360
	Badvél ...	Do.	„ 91¼	5,110	„ 157⅓	8,820
	Ráyachóti ...	Do.	...	...	„ 25	1,400
	Cuddapah ...	Do.	...	...	„ 3½	196
		Total, Fuel ...	Tons 176¼	9,870	Tons 246	13,776
	Kódúr ...	Bamboos	...	No. 300	3,711 Carts 100	No. 6,711
	Ráyachóti ...	Do.	...	...	...	„ 750
		Total, Bamboos ...	...	No. 300	...	No. 7,461
	Sidhout ...	Gallnuts	...	...	...	Mds. 350
	Cuddapah ...	Do.	...	Mds. 96	...	„ 197
	Ráyachóti ...	Do.	...	...	...	„ 371
	Badvél ...	Honey	...	...	Bottles 12	„ 1
		Wax	...	...	lb. 1	...
	Madanapalle ...	Coffee	...	...	...	„ 2½
		Rathipuvu	...	...	...	„ 31
		Jack fruits	...	...	No. 16	„ 8
		Mangoes	...	...	„ 1,300	„ 17¼
		Pears	...	...	„ 120	„ 1½
		Pomegranates	...	...	„ 76	„ 1
		Pumelos	...	...	„ 1,466	„ 91½
		Oranges	...	...	„ 7,646	„ 102
		Total, Minor Produce ...	...	Mds. 96	...	Mds. 1,173¾
Kurnool ...	Nandyál ...	Logs	...	...	...	51
			...	...	Cart-loads 72	1,440
		Felloes	...	...	447	37
		Spokes	...	...	903	113
	Nandikótkur ...	Miscellaneous poles ...	...	...	64	640
		Total, Timber ...	...	...	...	2,281
	Ramallakóta ...	Firewood	...	...	Cart-loads 13	260
	Nandyál ...	Do.	...	...	...	979
		Total, Fuel ...	...	...	Cart-loads 13	1,239

by Government Agency during the year 1888-89—*cont.*

TOTAL.		DISPOSED OF DURING YEAR.			BALANCE AT END OF YEAR.		Remarks.
Number.	Cubic feet.	How disposed of	Number	Cubic feet.	Number.	Cubic feet.	
No. 253	493	Sold Used departmentally. Do. Destroyed and loss on remeasurement.	No. 151 „ 99 ... No. 3	151 99 180 63	...	...	60 cubic feet loss.
„ 350	350	Sold	„ 350	350	...	...	
„ 280	280	Do.	„ 280	280	...	...	
„ 2	15	Taken to Cuddapah depôt.	„ 2	15	...	...	
„ 2,929	2,929	Sold Used departmentally.	„ 100 „ 84	100 84	No. 2,745	2,745	
„ 8	8	Do.	„ 3	3	„ 5	5	
„ 1,073	1,078	Do.	„ 71	71	„ 1,002	1,007	
„ 2,858	2,863	Sent to Cuddapah depôt. Sold	„ 50 „ 48	50 48	„ 2,760	2,765	
„ 12	24	...	„ 12	24	...	...	
„ 8	400	Do.	„ 8	400	...	...	
...	100,848	...	...	93,337	...	7,511	
Tons 145	8,120	Used departmentally. Sold	Tons 144 „ 1	8,064 56	...	...	
„ 248¾	13,930	Do.	„ 203½	11,396	45¼	2,534	
„ 25	1,400	...	...	...	25	1,400	
„ 3½	196	Taken to depôt	Tons 3½	196	...	...	
Tons 422¼	23,646	...	Tons 352	19,712	70¼	3,934	
4,011 Carts 100	No. 7,011	Used departmentally.	...	300	3,711 Carts 100	No. 6,711	
...	„ 750	Do.	...	No. 250	...	„ 500	
...	No. 7,761	...	...	550	...	No. 7,211	
...	Mds. 350	Taken to Votimetta depôt. Dryage	... ...	Mds. 133 „ 17	...	Mds. 200	
...	„ 293	Taken to Mamillapalle depôt.	...	„ 293	...	...	
...	„ 371	Taken to Pulisettivandlapalle depôt. Taken to Kurapalle depôt.	... ...	„ 233 „ 138	...	...	
Bottles 12	1	Taken to Cuddapah depôt.	Bottles 12	„ 1	...	...	
lb. 1	...	Do.	lb. 1	...	...	...	
...	„ 2½	Sold	...	„ 2½	...	...	
...	„ 31	Taken to Cuddapah depôt.	...	„ 31	...	...	
No. 16	„ 8	Sold	No. 16	„ 8	...	...	Each ½ maund estimate.
„ 1,300	„ 17¼	Do.	„ 1,300	„ 17¼	...	...	75 fruits per maund estimate.
„ 120	„ 1½	Do.	„ 120	„ 1½	...	...	
„ 76	„ 1	Do.	„ 76	„ 1	...	...	
„ 1,466	„ 91½	Do.	„ 1,466	„ 91½	...	...	16 do.
„ 7,646	„ 102	Sold Taken to Cuddapah depôt.	„ 5,142 „ 2,504	„ 68½ „ 33½	...	...	75 do.
...	Maunds 1,269¾	...	...	Mds. 1,069¾	...	Mds. 200	
...	51	...	...	...	...	51	
Cart-lds. 72	1,440	...	...	...	Cart-lds. 72	1,440	1 cart-load=20 cubic feet.
447	37	Sold	447	37	...	...	
903	113	Do.	903	113	...	...	
64	640	Do.	64	640	...	...	
...	2,281	...	1,414	790	Cart-lds. 72	1,491	
Cart-lds. 13	260	Supplied to Kurnool Jail.	Cart-lds. 13	260	...	...	
...	979	...	...	...	...	979	
Cart-lds. 13	1,239	...	Cart-lds. 13	260	...	979	

Statement of Timber and other Produce cut and collected

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
Kurnool—*cont.*	Nandikótkur ...	Gallnuts	...	Mds. 280	...	...
		Yellama gum	...	...	...	Mds. 12½
	Nandyál ...	Gallnuts	...	...	...	,, 26½
		Honey	...	...	...	,, 5
	Sirvél ...	Gallnuts	...	Mds. 190	...	,, 156
		Honey	..	...	..	,, 4
		Wax	...	...	...	,, 10
		Tamarind	...	...	...	,, 103
	Cumbum ...	Gallnuts	...	...	...	,, 21¾
		Marking nuts	...	...	...	,, ½
		Tamarind	...	...	...	,, 116¾
		Grass	...	...	Cart-loads 10	,, 450
	Márkapúr ...	Soapnuts	...	...	..	,, 5¾
	Pattikonda ...	Tamarind	...	...	...	,, 58
		Total, Minor Produce ...	...	Mds. 470	...	Mds. 969½
Bellary ...	Sandúr ...	Teak poles	...	...	400	1,200
		Rafters	...	...	1,636	3,272
		Total, Timber ...	...	...	2,036	4,472
	Sandúr ...	Railway fuel	Tons 671	46,299	Tons 1,288¾	88,924
		Creeper fuel	...	...	,, 33	2,277
	Adóni ...	Deadwood	...	...	1 dead tree and 32 stumps.	64
		Total, Fuel ...	Tons 671	46,299	1,321¾	91,265
	Sandúr ...	Bamboos	...	...	58,187	...
		Total, Bamboos ...	...	...	58,187	...
	Sandúr	Kapila dye	lb. 5	...	...	...
		Tamarind	...	Mds. 43	...	...
		Honey	...	...	...	Mds. 9
		Wax	...	...	...	,, 2
		Total, Minor Produce ,,	lb. 5	Mds. 43	...	Mds. 11
Anantapur.	Muchukóta ...	Yepi pieces	...	...	1,575	1,575
	Penukonda ...	Teak rafters	150	75	...	...
	Hindupur... ...	Timber	Cart-lds. 10	200	...	...
		Total, Timber ...	...	275	1,575	1,575
	Penukonda ...	Brushwood	...	...	Cart-loads 8	160
	Muchukóta ...	Do.	...	...	,, 14	280
		Total, Fuel ...	...	...	Cart-loads 22	440
	Penukonda ...	Gallnuts	....	...	...	Mds. 86½
		Yellama gum	...	...	...	,, 52½
		Yepi fibre	...	...	...	,, 2
		Honey	...	...	...	,, 94½
		Wax	...	...	...	,, 5
		Yellama gum	...	Mds. 8¼	...	,, 14¾
		Tamarind	...	...	...	,, 9
		Kanuga seeds	...	...	Tooms 12½ or	,, 20
	Hindupúr ...	Sara nuts	...	...	Meas. 54	,, 4½
		Honey	...	...	...	,, 36

by Government Agency during the year 1888-89—*cont.*

Total.		Disposed of during year.			Balance at end of year.		Remarks.
Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
...	Mds. 280	Written off ...	...	280	...	...	
...	„ 12¼	Sold	...	10¾	...	...	
...	„ 26½	Wastage	...	1½	...	26½	
...	„ 5	... ...	...	...	...	...	
...	„ 346	Sold	...	5	...	156	
...	„ 4	Written off ...	...	190	...	4	
...	„ 10	...	...	...	...	10	
...	„ 103	...	...	...	...	103	
...	„ 21¾	...	...	...	...	...	
...	„ ½	Sold	...	21¾	...	...	
...	„ 116¾	Do.	...	½	...	...	
Cart-lds. 10	„ 450	Do.	...	116¾	...	...	
...	„ 5¾	...	...	...	Cart-lds. 10	450	
...	„ 58	Sold	...	5¾	...	...	
		...	...	6	...	52	
...	Maunds 1,439½	...	...	638	...	801½	
400	1,200	Sold	400	1,200	...	...	
1,636	3,272	Do.	1,636	3,272	...	...	
2,036	4,472	...	2,036	4,472	...	...	
Tons 1,959¾	135,223	Sold	Tons 1,273	87,837	582¼	40,176	1 ton=69 cubic feet by railway specification.
		Sent to Hospet depôt.	„ 84	5,796			
		Sold by auction ...	„ 20½	1,414			
„ 33	2,277	Sent to Bellary ...	„ 9½	655	23½	1,622	
1 dead tree and 32 stumps.	64	Sold	1 dead tree and 32 stumps.	64	...	...	
1,992¾	137,564	...	Tons 1,387	95,766	605¾	41,798	
58,187	...	Sold	58,187	...	...	...	
58,187	...	...	58,187	...	...	...	
lbs. 5	...	Sold	lbs. 5	...	...	...	
...	Mds. 43	Do.	...	Mds. 43	...	...	
...	„ 9	Do.	...	„ 9	...	...	
...	„ 2	Do.	...	„ 2	...	...	
lbs. 5	Mds. 54	..	lbs. 5	Mds. 54	...	...	
1,575	1,575	Sold	1,575	1,575	...	...	
150	75	...	...	...	150	75	2=1 cubic foot.
Cart-lds. 10	200	...	...	...	Cart-lds. 10	200	
...	2,850	...	1,575	1,575	...	275	
Cart-lds. 8	160	...	...	...	Cart-lds. 8	160	
„ 14	280	Sold	Cart-lds. 4	80	„ 10	200	
Cart-lds. 22	440	...	Cart-lds. 4	80	Cart-lds. 18	360	
...	Mds. 86½	Taken to Bukkapatnam depôt.	...	Mds. 86½	...	...	
...	„ 52½	Do. do. ...	...	„ 52½	...	...	
...	„ 2	Do. do. ...	...	„ 2	...	...	
...	„ 94½	Do. do. ...	...	„ 94½	...	...	
...	„ 5	Do. do. ...	...	„ 5	...	...	
...	„ 23	Sold	...	„ 23	...	...	
...	„ 9	Do.	...	„ 9	...	...	
Tooms 12½ or	„ 20	Do.	Tooms 12½ or	„ 20	...	...	1 toom=54 measures.
		Do.	Meas. 45				
Meas. 54	„ 4½	Sent to Bukkapatnam depôt.	„ 7¾	„ 4½	...	...	
		Wastage	„ 1¼				
		Sold	...	„ ½			
...	„ 36	Sent to Bukkapatnam depôt.	...	„ 35¼	...	...	
		Wastage	...	„ ¼			

Statement of Timber and other Produce cut and collected

District.	Forest range, Forest or Working Circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
Anantapur	Hindupur ...	Wax	...	...	...	Mds. 2
	Anantapur ...	Honey	...	...	...	,, ¼
	Muchukota ...	Yepi fibre	...	...	...	,, 50
		Total minor produce ...	...	Mds. 8¼	...	Mds. 377
Nilgiris ...	Benne reserved forest.	Teak logs	26	1,000	444	11,263
		Blackwood logs ...	3	230	59	2,066
		Drag poles	...	...	7	7
		Vengai logs	11	448	142	4,640
					Increase on remeasurement.	101
		Mutti do.	10	506	152	5,941
	Mudumalai leased forest.	Teak logs ...	75	1,721	...	...
		Do. poles	2,317	13,902	591	591
		Do. pieces	...	1,205	...	...
		Blackwood logs and poles	207	1,719	9	130
		Vengai logs ...	176	1,056	74	110
		Mutti do. ...	101	764	...	...
		Junglewood do. ...	205	1,298	...	...
	Coonoor Working Circle.	Drag poles	...	...	2,184	2,184
	Bleak House Working Circle.	Slabs	...	...	Lds. 3½	100
		Acacia planks	...	...	3	3
		Do. rafters ...	...	...	260	130
		Drag poles	260	260	680	680
	Bandy shola Working Circle.	Acacia planks	...	...	59	59
		Do. rafters	...	...	272	136
	Longwood forest depôt.	Drag poles	8	8	309	309
		Planks	...	...	1	1
		Rafters	...	...	77	38½
	Barliyar Working Circle.	Drag poles	287	287	...	...
	Kotagiri	Do.	...	...	222	222
		Total Timber ...	3,686	24,404	5,545	28,711½
	Aramby Working Circle.	Eucalyptus firewood ...	Tons 1,170	74,900	Lots 636½	63,650
		Do. do. ...	...	...	Hd. lds. 3,069	3,069
		Do. leaves ...	...	...	,, 838	838
	Cairn Hill Working Circle.	Do. firewood ...	...	...	Lots 468½	46,850
		Do. do. ...	...	...	Hd. lds. 3,939	3,939
		Do. leaves ...	...	...	,, 80	80
		Creepers	...	...	,, 284	284
	Governor's shola Working Circle.	Eucalyptus firewood ...	Tons 950	60,800	Lots 40	4,000
		Do. do. ...	...	...	Hd. lds. 2,801	2,801
	Snowdon forest ...	Acacia do. ...	...	...	Lots 3	300
	Lovedale forest ...	Sholawood do. ...	...	...	,, 2	200
	Coonoor Peak Working Circle.	Eucalyptus firewood ...	Tons 2,612	167,100	Lots 1,469¼	146,925
		Do. do. ...	...	...	Bull. lds. 333	1,332
		Do. do. ...	...	...	Hd. lds. 9,450	9,450
	Bandy shola Working Circle.	Acacia firewood ...	Tons 14	900	Lots 185	18,500
		Do. do.	...	...	Bull. lds. 585	2,340
		Do. do.	...	...	Hd. lds. 1,195	1,195
		Do. leaves ...	...	...	Cart loads 2	40

by Government Agency during the year 1888-89—*cont.*

Total.		Disposed of during year.			Balance at end of year.		Remarks.
Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
...	Mds. 2	Sold	...	Mds. 1½	...	...	
		Sent to Bukkapatnam depôt.	...	„ ½			
		Dryage	...	„ ½			
...	„ ¼	.....	...	...	...	¼	
...	„ 50	Sold	...	„ 50	...	...	
...	Mds. 385¼		...	Mds. 385	...	¼	
470	12,263	Sold	401	10,594	69	1,669	
62	2,296	Sold	12	676	50	1,178	
		Loss on remeasurement.	...	442			
7	7	Sold	7	7	...	...	
153	5,189	Sold	152	5,158	1	31	
162	6,447	Sold	24	888	137	5,532	
		Used departmentally..	1	27			
75	1,721	Sold	75	1,721	...	...	
2,908	14,493	Do.	1,658	7,792	1,250	6,701	
...	1,205	Written off	...	1,205	...	...	
216	1,849	Sold	15	122	201	1,727	
250	1,166	Do.	86	150	164	1,016	
101	764	.....	...	...	101	764	
205	1,298	Sold	194	1,200	11	98	
2,184	2,184	Sent to Coonoor depôt	1,930	1,930	32	32	
		Sent to Kotagiri ...	222	222			
Lds. 3½	100	Sold	Lds. 3½	100	...	...	
3	3	Sent to Coonoor depôt	3	3	...	...	
260	130	Do. ...	260	130	...	...	
940	940	Do. ...	940	940	...	...	
59	59	Do. ...	59	59	...	...	
272	136	Do. ...	272	136	...	...	
317	317	Sold	235	235	82	82	
1	1	Do.	1	1	...	...	
77	38½	Do.	34	17	43	21½	
287	287	.....	...	...	287	287	
222	222	.....	...	...	222	222	
9,231	53,115½		6,581	33,755	2,650	19,360½	
Lots 1,385½	138,550	Sold	Lots 486	48,600	Lots 515½	51,550	
		Sent to Ooty depôt ...	„ 268½	26,850			
		Dryage	„ 115½	11,550			
H.lds. 3,069	3,069	Sold	H.lds. 3,069	3,069	...	...	
„ 838	838	Do.	„ 838	838	...	...	
Lots 468½	46,850	Do.	Lots. 109¾	10,975	245¾	24,575	
		Sent to Ooty depôt ...	„ 113	11 300			
H.lds. 3,939	3,939	Sold	H. L. 3,939	3,939	...	...	
„ 80	80	Do.	„ 80	80	...	...	
„ 284	284	Do.	„ 284	284	...	...	
Lots 648	64,800	Do.	Lots 200	20,000	208½	20,850	
		Sent to Ooty depôt ...	„ 131½	13,150			
		Dryage	„ 108	10,800			
H.lds. 2,801	2,801	Sold	H.lds. 2,801	2,801	...	...	
Lots 3	300	Do.	Lots 3	300	...	...	
„ 2	200	Do.	„ 2	200	...	...	
„ 3,140¼	314,025	Sold	„ 68¾	6,875	2,266	226,600	
		Dryage	„ 75	7,500			
		Converted charcoal	„ 5	500			
		Sent to Coonoor depôt	„ 168½	16,850			
		Do. Wellington do.	„ 557	55,700			
B. lds. 333	1,332	Sold	B. lds. 333	1,332	...	...	
H.lds. 9,450	9,450	Do.	H.lds. 9,450	9,450	...	...	
Lots 194	19,400	Sold	Lots 7	700	80	8,000	
		Converted charcoal ...	„ 98¼	9,825			
		Sent Wellington depot	„ 1¾	175			
		Dryage	„ 7	700			
B. lds. 585	2,340	Sold	B. lds. 585	2,340	...	...	
H.lds. 1,195	1,195	Do.	H.lds. 1,195	1,195	...	...	
Cart lds. 2	40	Do.	Cart lds. 2	40	...	...	

Statement of Timber and other Produce cut and collected

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
	Bandy Shola W. C.—*cont.*	Charcoal	Ton 1	330	Bags 1,204	10,750
	Bleak House W. C.	Acacia firewood ...	Tons 105	6,700	Lots 47½	4,750
		Do. do. ...	...	...	Bull. lds. 110	440
		Do. do. ...	...	...	Hd. lds. 6,662	6,662
		Do. slabs ...	...	...	Cart loads 3	60
	Sim's Park forest	Shola firewood ...	...	...	...	70
		Do. do. ...	...	...	Head loads 8	8
	Ghát reserved forest.	Do. do. ...	Ton 1	75	Lot 1	100
	Town shola forest.	Do. do. ...	...	...	Hd. lds. 184	184
	Rallia W. C. ...	Eucalyptus firewood ...	...	...	Lots 333⅓	33,350
		Do. do. ...	...	...	Bull. lds. 17	68
		Do. do. ...	...	...	Hd. lds. 1,480	1,480
	Longwood forest.	Shola do. ...	Tons 50½	3,200	Lots 18	1,800
	Kotagiri forest depôt.	Charcoal	lbs. 940	165	Bags 40	357
	Burliyar Working Circle.	Shola firewood ...	Tons. 555	35,700	Lots 239	23,900
	Devashola Forest.	Do. do.	...	...	6	600
		Total ...	...	349,870	...	390,372
Nílgiris—*cont.*	Sigur	Sandalwood	...	Mds. 233	...	Mds. 1,714
		Total, Sandalwood ...	...	Mds. 233	...	Mds. 1,714
	Ootacamund ...	Gallnuts	...	...	...	Mds. 544
	Coonoor... ...	Gallnuts	...	...	...	„ 162
		Dammer...	...	...	...	„ 3¾
		Honey	...	...	...	„ 17¼
		Wax	...	...	...	½
	Kótagiri... ...	Gallnuts	...	...	...	757½
		Sheakoy	...	...	...	16¾
		Tamarind	...	...	...	9¼
		Honey	...	...	...	Seers 3
		Wax	...	...	...	Md. ½
		Horns	...	...	...	Mds. 7¼
	Kullar	Sheakoy	...	...	...	45
		Tamarind	...	...	...	10
		Wax	...	...	...	¾
	Melúr	Gallnuts	...	...	...	54¾
		Vembadam bark ...	...	...	...	44½
		Horns	...	...	...	6
		Wax	...	...	...	½
	Sigur	Gallnuts	...	Mds. 235	...	215
		Vembadam bark ...	...	„ 80	...	20¼
		Sheakoy	...	„ * 90	...	3
		Tamarind	...	2½	...	...
		Honey	...	15	...	¼
		Wax	...	4	...	¼
		Deer horns	...	3	...	7½

by Government Agency during the year 1888-89—*cont.*

TOTAL.		DISPOSED OF DURING YEAR.			BALANCE AT END OF YEAR.		Remarks.
Number.	Cubic feet.	How disposed of	Number.	Cubic feet.	Number.	Cubic feet.	
Bags 1,241	11,080	Sold	Bags 26	232	Bags 102	911	1 bag=50 lbs. =500lbs. firewood = $\frac{400}{576}$ cubic feet.
		Sent Ooty depôt ...	,, 637	5.687			
		Sent Wellington depôt	,, 434	3,875			
		Sent Kotagiri forest ..	,, 40	357			
		Wastage	,, 2	18			
Lots 114½	11,450	Sold	Lots 15	1,500	39	3,900	
		Converted charcoal ...	,, 16⅓	1,650			
		Sent Wellington depôt	,, 38⅓	3,850			
		Dryage	,, 5½	550			
B. lds. 110	440	Sold	B. lds. 110	440	..	...	
H.lds.6,662	6,662	Do.	H.lds.6,662	6,662	...	...	
Cart lds. 3	60	Do.	Cart lds. 3	60	...	...	
...	70	Sold	..	20	...	..	
		Sent Wellington depôt	...	25			
		Dryage	...	25			
Hd. lds. 8	8	Sold	Hd. lds. 8	8	...	...	
Lots 2	175	Sent Coonoor depôt ...	Lots 1	100	1	75	
Hd. lds. 184	184	Sold	Hd lds. 184	184	...	...	
Lots 333½	33,350	.....	...	...	333½	33,350	
B. lds. 17	68	Sold	B. lds. 17	68	...	...	
,, 1,480	1,480	Do.	H.lds.1,480	1,480	...	...	
Lots 50	5,000	Do.	Lots 4¼	425	45¾	4,575	
Bags 58½	522	Do.	Bags 35½	317	Bags 23	205	
Lots 596	59,600	Do.	Lots 15	1,500	Lots 370½	37,050	
,, 6	600	Dryage	,, 210½	21,050	6	600	
		.....	...	...			
...	740,242	.....	...	328,001	...	412,241	
...	Mds. 1,947	Sold	...	Mds. 1,792	...	...	
		Dryage	...	,, 155			
...	Mds. 1,947	.....	...	Mds. 1,947	...	...	
...	Mds. 544	Sold	...	Mds. 500	...	Mds. 44	
...	,, 162	Do.	...	,, 36	...	,, 126	
...	,, 3¾	Do.	...	,, 3¾	...	...	
...	,, 17¼	Sold	...	12	...	Mds. 4¼	
		Wastage	...	1			
...	½	.....	...	...	...	½	
...	757½	Sold	...	757½	...	...	
...	16¾	Do.	...	16¾	...	...	
...	9¼	Do.	...	9¼	...	...	
...	Seers 3	Do.	...	Seers 3	...	...	
...	Md. ½	Do.	...	Md. ½	...	...	
...	Mds. 7¼	Do.	...	Mds. 7¼	...	...	
...	45	Do.	...	25	...	20	
...	10	.....	...	...	...	10	
...	¾	Sold	...	¾	...	...	
...	54¾	Sent to Coonoor depôt.	...	22	...	32¾	
...	44½	.....	...	...	...	44½	
...	6	.....	...	...	...	6	
...	½	.....	...	...	...	½	
...	450	Sold	...	267¾	...	175	
		Dryage	...	7¼			
...	100½	Wastage	...	9¾	...	90½	
...	5	Sold	...	4½	...	...	* Of last year's opening balance 88 mds. belong to Naduvatam.
		Wastage	...	½	...	...	
...	2½	Sold	...	2½	...	...	
...	15¼	Do.	...	2	...	13	
		Wastage	...	¼			
...	4¼	Sold	...	1½	...	¼	
		Spoiled	...	2½			
...	10½	Sold	...	7¾	...	2¾	

Statement of Timber and other Produce cut and collected

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.	
			Number.	Cubic feet.	Number.	Cubic feet.
Nilgiri—*cont.*	Naduvatam	Gallnuts	...	...	...	90
		Sheakoy	...	Mds. 88	...	6
		Coffee	...	„ 4	...	2
		Wax	...	...	...	¼
		Deer horns	...	...	...	1
	Mudumalai	Gallnuts	...	...	...	1,260
		Vembadam bark	...	...	...	30¾
		Tamarind	...	...	...	135
		Honey	...	...	...	2¼
		Wax	...	...	..	3
		Deer horns	...	...	...	9¾
		Total, Minor Produce ...	...	433½	...	3,466½

by Government Agency during the year 1888-89—*cont.*

Total.		Disposed of during year.			Balance at end of year.		Remarks.
Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
...	90	.....	.		...	90	
...	94	Sold	..	94	...	...	
...	6	.. ..	...	.	...	6	
...	¼	. ...	...	.	...	¼	
...	1	... ..	...	.	...	1	
...	1,260	Sold	...	1,260	...	...	
...	30¾	Do.	..	25¼	...	...	
		Wastage	..	5½			
...	135	Sold	..	110	...	...	
		Wastage	...	25			
...	2¼	Sold	...	1½	...	¼	
		Wastage	...	¼			
...	3	Sold	...	2¾	...	...	
		Dryage	...	¼			
...	9¾	Sold	...	9¾	...	...	
...	3,900	.....	...	3,232¼	...	667¾	

ANNUAL FORM No. 70.

Forest Department, Madras, Northern Circle.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1888-89.

District.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1889.	
			Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Ganjam.	Russellkonda.	Sal logs ...	...	...	Chokapad ..	333	2,395	365	2,615	Sent to Gopalpur depot.	39	610	81	450
					Bodaborosingi.	28	162			Sold	185	633		
					Surada depot.	3	45			Cut into sleepers and scantlings.	50	892		
					Jaganathprasad.	1	13			Used departmentally.	10	30		
		Sleepers ...	...	...	Cut	138	230	9,721	23,290	Sent to Gopalpur depot.	8,733	21,483	820	1,520
					Chokapad ...	2,035	2,974			Sold	9	20		
					Bodaborosingi.	1,025	1,742			Used departmentally.	159	267		
					Gayagonda ...	4,353	11,534							
					Jaganathprasad.	2,170	6,810							
		Scantlings...	...	...	Cut	196	260	196	260	Sent to Gopapur depot.	128	170	60	80
										Used departmentally.	8	10		
		Slabs ...	...	...	Do.	5,390	...	5,390	...	Sold	299			
										Cut into scantlings.	1	...	5,069	...
										Used departmentally.	21			
		Blocks ...	...	...	Found ...	19	52	19	52	Sold	19	52	...	...
		Sajo logs ...	...	...	Do. ...	10	29	14	81	...	...	...	14	81
					Bodaborosingi.	4	52							
		Blackwood.	...	...	Gayagonda ...	2	26	2	26	Loss on remeasurement.	...	1	2	25
		Miscellaneous.	...	...	Found ...	15	25	15	25	...	...	...	15	25
	Surada.	Sal logs ...	16	218	Pondakhol ...	246	991	262	1,209	Sent to Gopalpur depot.	22	312	...	...
										Russellkonda	3	45		
										Cut into sleepers.	237	852		
		Sleepers ...	...	...	Cut	276	690	477	1,177	Sent to Gopalpur depot.	256	598	217	573
					Found ...	1	2			Used departmentally.	4	6		
					Pondakhol ...	200	485							
		Slabs ...	...	...	Cut	1,106	...	1,106	...	Used departmentally.	200	...	906	...
		Sajo logs ...	36	688	Pondakhol ...	7	86	43	774	Sent to Gopalpur.	37	625	6	127
										Loss on remeasurement.	...	22		
		Satinwood...	3	33	Do. ...	9	99	12	132	Used departmentally.	8	95	4	16
										Loss on remeasurement.	...	19		
		Miscellaneous.	7	71	Do. ...	2	16	9	87	Sent to Khariguda.	2	16	7	71
		Do. planks.	51	26	Found ...	40	20	91	46	Do. ...	64	32	27	14
	Khariguda.	Do. logs ...	...	...	Surada depot.	2	16	2	16	Used departmentally.	2	16	...	...
		Do. planks.	123	61	Do. ...	64	32	187	93	Do. ...	187	93	...	...
	Bedigula.	Holondo planks.	317	...	...	...	...	317	...	Destroyed ...	7	...	...	...
										Sent to Rambha.	310			
	Berhampore.	Sal logs ...	...	...	Berhampore.	23	225	23	225	Sent to Gopalpur.	16	157	7	68
		Do. rafters.	...	...	Gopalpur depot.	16	23	16	23	Sold	16	23	...	...
		P.asal logs...	...	...	Berhampore.	2	19	2	19	Do.	2	19	...	...
					Gayagonda ...	4	71			Do.	43	352		
					Chokapad ...	78	1,091			Cut into sleepers and scantlings,	336	3,379		
					Pondakhol ...	75	213							
					Berhampore.	44	438			Used departmentally.	60	300	370	2,760
		Sal logs ...	648	4,625	Russellkonda depot.	39	610	930	7,530					
					Surada depot.	22	312			Cut into firewood.	121	739		
					Berhampore.	16	157							
	Gopalpur.				Found ...	4	13							
					Cut	556	1,505			Sold	2,528	8,588		
					Russellkonda depot.	8,733	21,483			Cut into scantlings.	1	2	7,149	14,703
		Sleepers ...	150	269	Surada depot.	256	598	9,695	23,855	Do. firewood.	17	48		
										Loss on remeasurement.	...	214		

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1888-89—*cont.*

District.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1889.	
			Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Ganjam—*cont.*	Gopalpur—*cont.*	Sal scantlings.	50	151	Cut ...	48	25	226	346	Sold ...	142	155	6	9
					Russelkonda depot.	128	170			Used departmentally.	4	12		
										Cut into fuel.	74	170		
		Sal slabs. ...	1,982	...	Cut	6,338	...	8,433	...	Sold	4,350	...	364	...
					Found ...	113				Cut into scantlings.	8			
										Cut into fuel.	1,404			
										Used departmentally.	2,307			
		Rafters. Sal ... Dhau. Sajo ...	174	196	Cut	279	196	453	392	Sold	161	183	263	171
										Sent to Berhampore.	16	23		
										Used departmentally.	13	15		
		Satinwood logs.	35	376	...	...	...	35	376	Sold	3	31	32	339
										Cut into slabs.	...	3		
										Sample ...	...	3		
		Ebony do.	3	46	...	...	...	3	46	...	...	...	3*	46
		Blackwood logs.	1	3	...	...	...	1	3	...	...	...	1	3
		Sajo logs ...	136	1,683	Surada depot.	37	625	173	2,308	Sold	1	8	129	1,906
										Cut into slabs.	...	3		
										Do. rafters.	37	316		
										Do. fuel.	6	75		
		Do. sleepers.	2	6	...	...	...	2	6	Sold	2	6	...	...
		Piasal logs...	10	97	...	...	...	10	97	Do.	2	24	6	49
										Cut into planks.	2	24		
		Dhau do. ...	47	655	...	...	...	47	655	Do. rafters.	2	22	44	620
										Sold	1	12		
										Cut into slabs.	...	1		
		Miscellaneous.	20	166	Berhampore depot.	2	19	22	185	Sold	5	27	16	149
										Cut into planks.	1	9		
	Dowlaishweram	Satinwood planks, &c.	...	...	...	4	14	4	14	Sold	4	14	...	...
		Dhau do.	...	...	...	4	14	4	14	Do.	4	14	...	...
		Sajo do.	...	...	...	4	14	4	14	Do.	4	14	...	...
	Madras	Satinwood logs.	6	86	Found ...	2	6	8	92	Do.	8	92	...	...
										Do.	9	150	...	...
		Dhau logs ...	8	176	...	1	...	9	176	Loss on remeasurement.	...	26	...	...
		Sajo do. ...	8	151	...	...	...	8	151	Sold	8	151	...	...
		Total, Timber	3,833	9,783	...	34,503	56,627	38,336	66,410	...	22,718	42,603	15,618	23,807
	Russellkonda.	Firewood ...	Tons 7	490	Cut	...	30	Tons 7	520	Sold	Tons. 7	520	...	...
	Berhampore ...	Do. ...	...	...	Gopalpur depot.	Tons 34	2,380	,, 46½	3,255	Do.	,, 24	1,680	Ts. 22½	1,575
					Bodaborosingi.	,, 12½	875							
	Gopalpur.	Do. ...	...	...	Cut	,, 37	2,591	,, 37	2,591	Do.	,, 3	211	...	...
										Berhampore.	,, 34	2,380		
		Charcoal ...	lb. 108*	19	Found ...	lb. 2	...	lb. 110	19	Sold	lb. 82	14	lb. 10	2
										Used departmentally ...	,, 18	3		
		Chips ...	...	...	Do. ...	...	37	...	37	Sold	...	37	...	...
		Total, Fuel.	...	509	...	...	5,913	...	6,422	...	...	4,845	...	1,577
	Surada	Gallnuts ...	...	Mds. 57	...	...	...	...	Mds. 57	Sold	...	Mds. 57	...	...
		Gum ...	...	,, 1	...	...	...	...	,, 1	Do.	...	,, 1	...	...
		Gillo fruits.	...	,, 749†	...	...	...	...	,, 749	Podded ...	...	,, 749	...	...
		Do. seed ...	...	...	Podded ...	...	Mds. 40	...	,, 40	Sent to Berhampore ...	...	,, 30	...	Mds. 10
	Berhampore.	Do. do. ...	...	...	Surada depot.	...	,, 30	...	,, 30	...	...	...	...	,, 30
		Total, Minor Produce.	...	Mds. 807	...	...	Mds. 70	...	Mds. 877	...	...	Mds. 837	...	Mds. 40
Vizagapatam.	Rajam.	Sal rafters.	...	...	Palconda Agency.	29	43½	29	43½	Sold	29	43½	...	...
		Nallamaddi logs.	...	...	Do. ...	8	84	8	84	Do.	8	84	...	...
		Miscellaneous.	...	...	Do. ...	11	16½	11	16½	Do.	11	16½	...	...
		Total, Timber.	...	...	...	48	144	48	144	...	48	144	...	...
Godavari.	Madras ...	Satinwood.	...	...	Found in depot.	2	6	2	6	Sold	2	6	...	...
		Ironwood ...	1	15	...	...	...	1	15	Do.	1	15	...	...
		Miscellaneous.	3	29	...	...	...	3	29	Do.	3	29	...	...
		Total, Timber.	4	44	...	2	6	6	50	...	6	50	...	...
Nellore.	Do.	Casuarina poles.	1	2	...	...	...	1	2	...	...	...	1	2
		Total, Timber.	1	2	...	...	...	1	2	...	...	...	1	2

* Given last year under Berhampore by mistake.
† 40 maunds of seed.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1888-89—*cont.*

District.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1889.	
			Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Nellore.	Madras.	Firewood. Junglewood.	331,499	32,232	Sriharikota	1,895,960	94,385	2,227,559	126,627	Sold	1,427,019	71,129	799,865	55,440
					Increase on remeasurement.	100	10			Loss on remeasurement.	675	58		
		Sulli bundles.	489	652	Sriharikota	78,201	104,268	78,690	104,920	Sold	9,783	13,045	68,906	91,875
										Loss on remeasurement.	1			
		Casuarina.	...	...	Dugarazpatam.	Ts. 607	24,280	Tons. 607	24,280	Sold	Ts. 601½	24,280	...	...
										Loss on reweighment.	,, 5½			
		Poles ...	...	...	...	,, 8	16	,, 8	16	Used departmentally.	8	16	...	...
		Total, Fuel.	...	32,884	...	...	222,959	...	255,843	...	...	108,528	...	147,315
		Rattans* ...	Bds. 35	Mds. 105	Sriharikota.	Bds. 103	Mds. 309	Bds. 138	Mds. 414	Sold	Bds. 128	Mds. 384	Bds. 10	Mds. 30
					Do. ...	...	,, 219			Sold ...	...	,, 226½	...	...
		Sarsaparilla.	...	5	Increase on re-weighment.	...	,, 7½	...	,, 231½	Used experimentally.	...	,, 5		
		Total, Minor Produce.	...	Mds. 110	...	...	Mds. 535½	...	Mds. 645½	...	...	Mds. 615½	...	Ms. 30
Cuddapah.	Kodur...	Redwood roots and stumps.	Ts. 180	8,676	Cherlopalle ...	Ts. 900	43,200	Ts. 1,080	51,876	...	...	...	Ts. 1,080	51,876
	Pedapad.	Do. ...	,, 130	6,270	Seshachellam.	,, 100	4,800	,, 230	11,070	...	...	...	,, 230	11,070
	Orampad.	Do. ...	,, 76	3,648	Do. ...	,, 900	43,200	,, 976	46,848	...	...	...	,, 976	46,848
		Teak logs ...	...	...	Nallamalai.	No. 2	15	No. 2	15	Sold	No. 2	15	...	...
		Thamba slabs.	...	...	Seshachellam.	,, 50	50	,, 50	50	...	...	...	No. 50	50
		Total, Timber.	...	18,594	...	...	91,265	...	109,859	...	...	15	...	109,844
	Cuddapah.	Firewood ...	...	...	Palconda ...	Ts. 3½	196	Ts. 3½	196	Sold	Ts. 3½	196	...	...
		Total, Fuel.	...	...	...	Ts. 3½	196	Ts. 3½	196	...	Ts. 3½	196	...	...
		Gallnuts B.	...	Mds. 999	...	...	...	...	Mds. 999	...	...	...	...	Ms. 999
		Do. C.	...	...	Kurapalle depot.	...	Ms. 1,666½	...	,, 1,666½	Sold ...	...	1,515½	...	...
										Dryage ...	...	150½		
	Mamillapalle.	Do. C.	...	Mds. 355	Palconda forests.	...	,, 293	...	,, 648	Sold	...	630	...	Ms. 18
	Wontimitta.	Do. C.	...	,, 882	Do. ...	...	,, 133	...	,, 1,015	...	...	...	...	,, 1,015
		Do. B.	...	,, 151	...	...	...	...	,, 151	...	...	...	...	,, 151
	Kurapalle.	Do. C.	...	,, 2,035	Palconda ...	...	138	...	2,173	Sent to Cuddapah.	...	1,666½	...	...
										Sold ...	...	342½		
										Dryage ...	...	164		
	Pulisettivandlapalle.	Do. C.	...	733	Do. ...	...	233	...	966	Do. ...	...	378	...	
	Cuddapah.	Wax ...	...	...	Badvel depot.	...	1 lb.	...	1 lb.	Sold	...	1 lb.	...	...
		Honey ...	...	...	Do. ...	Bottles 12.	1	Bottles 12	1	Do. ...	12 bottles.	1	...	...
		Oranges † ...	...	...	Horsley Konda.	No. 2,504	33½	No. 2,504	33½	Do. ...	No. 2,504	33½	...	...
		Rathipuvu.	...	...	Do. ...	...	31	...	31	Sent to Bellary and Anantapur D. F. O.'s office for sale.	...	31	...	...
		Total, Minor Produce.	...	Mds. 5,155	...	...	Mds. 2,529	...	Mds. 7,684	...	...	Mds. 4,913	...	M. 2,771
Kurnool.	Nandikotkur, &c.	Gallnuts B.	...	Mds. 1,530	...	...	...	...	Mds. 1,530	Written off as valueless.	...	Mds. 1,530	...	...
		Total, Minor Produce.	...	Mds. 1,530	...	...	...	...	Mds. 1,530	...	...	Mds. 1,530	...	...
Bellary.	Hospet...	Firewood ‡	Tons. 11	759	Sandur ...	Tons. 84	5,796	Tons. 95	6,555	Sold ...	Tons. 70	4,830	Tons. 25	1,725
	Bellary...	Creeper fuel.	...	...	Do. ...	,, 9½	655	,, 9½	655	...	...	...	,, 9½	655
		Total, Fuel...	11	759	...	Tons. 93½	6,451	Tons. 104½	7,210	...	Tons. 70	4,830	Tons. 34½	2,380
	Bellary...	Kapila dye.	lbs. 20	...	...	...	...	lbs. 20	...	Sold	lbs. 20	...	...	...
		Total, Minor Produce.	lbs. 20	...	...	...	...	lbs. 20	...	...	lbs. 20	...	...	...
Anantapur.	Gooty ...	Palmyra ...	1	2	...	...	...	1	2	Used for demarcation.	1	2	...	...
	,,	Total, Timber	1	2	...	...	...	1	2	...	1	2	...	...

* 1 bundle rattan = 3 maunds of 25 lb. each.
† 75 fruits to a maund.
‡ 1 ton = 69 c. ft. according to Railway specification.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1888-89—*cont.*

District.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1889.	
			Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Anantapur.	Bukkapatnam.	Honey ...	Mds. 1½	...	Penukonda / Hindupur	Mds. 129½	...	Mds. 131		Sold	Mds. 9		Mds. 122	...
		Wax ...	...	..	Do.	,, 5½	...	,, 5½	...	Do.	,, 5	.	,, ½	
		Gallnuts B.	Mds. 232	...		...	..	232		Written off accts.	,, 232	.	.	...
		Do. C.	...	...	Penukonda range.	Mds. 86½		,, 86½	...	Sold	,, 86½	.	...	..
		Tamarind...	Mds. 4½	...	..	..	..	,, 4½	.	Do. ..	,, 4½	.	...	...
		Yellama gum.	...	...	...	Mds. 52½	..	,, 52½	.	Do. ...	,, 2	.	Mds. 50½	...
		Yepi fibre ...	...	...	...	,, 2	...	,, 2	...	Do. ..	,, 2		...	...
		Sura nuts ...	...	...	...	Meas. 7½	or ½ md.	Meas. 7½	or ½ md.				Meas. 7½	or ½ md.
	Gooty	Babul pods.	Mds.1,658	...	...	...	...	,, 1,658	..	Written off accts.	Mds. 1,658	...	...	...
		Do. bark.	Mds. 1	...	...	...	...	,, 1	...	Do. ...	,, 1	..	...	...
		Gum ...	,, 1½	...	...	...	...	Mds. 1½	.		...	...	Mds. 1½	...
		Total, Minor Produce.	Mds.1,898	...	...	Mds. 276½	...	Mds. 2,174½	..	.	Mds.2,000	...	Mds. 174½	...
Nilgiris.	Coonoor.	Acacia rafters.	211	105½	Forests ...	532	266	743	371½	Sold	190	95	363	.181½
		Acacia planks.	...	...	Do. ...	62	62	62	62	Used deptly.	190	95		
										Do. ...	51	51	9	9
										Sold	2	2		
		Drag poles...	487	487	Coonoor peak.	1,930	1,930	3,357	3,357	Do. ...	2,069	2,069	98	98
					Bleak house.	940	940			Conversion ...	650	650		
										Used deptly.	540	540		
		Total, Timber.	698	592½	...	3,464	3,198	4,162	3,790½	...	3,692	3,502	470	288½
	Ootacamund.	Firewood ...	Lots 30½ (48 tons.)	3,050	Governor's shola.	Lts. 131½	13,150	Lots 543½	54,350	Sold	Lots 443	44,300	Lts. 44½	4,475
					Cairn Hill ...	,, 113	11,300			Used deptly.	¾	75		
					Arumby ...	,, 268½	26,850			Dryage ...	55	5,500		
		Bark ...	...	...	Found in depot.	Ct. lds. 3	60	Ct. lds. 3	60	Sold	Ct. lds. 3	60	...	...
		Charcoal *...	Bags 30 (½ ton)	268	Coonoor ...	Bgs. 637	5,687	Bags 667	5,955	Do. ...	Bgs. 631	5,634	Bgs 34	303
										Wastage ...	Do. 2	18		
	Coonoor.	Firewood ...	Lots 59½ (93 tons.)	5,950	Coonoor Peak.	Lts. 168½	16,850	Lots 231	23,100	Sent to Wellington.	Lots. 1½	175	Lts. 94½	9,425
					Conversion in depot.	,, 2	200			Sold	Do. 99½	9,950		
					Ghat reserve.	,, 1	100			Dryage ...	35½	3,550		
		Bark ...	...	...	Found in depot.	Ct.lds. 55	1,100	55	1,100	Sold	Ct.lds. 55	1,100	...	...
	Wellington.	Firewood ...	Lots 56½ (89 tons.)	5,675	Coonoor Peak.	Lts. 557	55,700	656	65,600	Sold	Lots. 510½	51,050	77	7,700
					Bandy shola .	,, 1¾	175			Used deptly.	,, 3	300		
					Bleak house .	,, 38½	3,850			Dryage ...	,, 65½	6,550		
					Sim's Park ...	,, ¼	25							
					Coonoor depot.	,, 1¾	175							
		Charcoal ...	Bags 26 (¼ ton.)	232	Bandy shola.	Bgs. 434	3,875	Bags 460	4,107	Sold	Bgs. 416	3,714	Bgs. 44	393
		Bark ...	...	...	Found in depot.	Ct.lds. 18½	365	Ct. lds. 18½	365	Do. ...	Ct.lds.18½	365	...	...
		Chips ...	...	...	Do. ...	,, 57½	1,145	,, 57½	1,145	Do. ...	,, 57½	1,145	...	...
		Total, Fuel...	...	15,175	...	...	140,607	...	155,782	...	...	133,486	...	22,296
	Coonoor.	Gallnuts ...	...	...	Melur ...	Mds. 22	...	Mds. 22	...	...	...	...	Mds. 22	...
		Total, Minor Produce.	...	...	...	Mds. 22	...	Mds. 22	...	...	...	...	Mds. 22	...

* 1 bag = 50 lb. = 500 lb. firewood.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1888-89—*cont.*

District.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1889.	
			Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Nellore.	Madras.	Firewood. Jungle-wood.	331,499	32,232	Sriharikota Increase on remeasurement.	1,895,960 100	94,385 10	2,227,559	126,627	Sold ... Loss on remeasurement.	1,427,019 675	71,129 58	799,865	55,440
		Sulli bundles.	489	652	Sriharikota	78,201	104,268	78,690	104,920	Sold ... Loss on remeasurement.	9,783 1	13,045	68,906	91,875
		Casuarina.	...	...	Dugarazpatam.	Ts. 607	24,280	Tons. 607	24,280	Sold ... Loss on reweighment.	Ts. 601½ ,, 5½	24,280	...	...
		Poles ...	...	...	...	,, 8	16	,, 8	16	Used departmentally.	8	16	...	...
		Total, Fuel.	...	32,884	...	...	222,959	...	255,843	...	...	108,528	...	147,315
		Rattans* ...	Bds. 35	Mds. 105	Sriharikota.	Bds. 103	Mds. 309	Bds. 138	Mds. 414	Sold	Bds. 128	Mds. 384	Bds. 10	Mds. 30
					Do. ...	...	,, 219					,, 226½		
		Sarsaparilla.	...	5	Increase on re-weighment.	...	,, 7½	...	,, 231½	Sold ... Used experimentally.	... ...	,, 5	...	...
		Total, Minor Produce.	...	Mds. 110	...	...	Mds. 535½	...	Mds. 645½	...	...	Mds. 615½	...	Ms. 30
Cuddapah.	Kodur...	Redwood roots and stumps.	Ts. 180	8,676	Cherlopalle ...	Ts. 900	43,200	Ts. 1,080	51,876	...	...	...	Ts. 1,080	51,876
	Pedapad.	Do. ...	,, 130	6,270	Seshachellam.	,, 100	4,800	,, 230	11,070	...	...	...	,, 230	11,070
	Orampad.	Do. ...	,, 76	3,648	Do. ...	,, 900	43,200	,, 976	46,848	...	...	...	,, 976	46,848
		Teak logs ...	...	...	Nallamalai.	No. 2	15	No. 2	15	Sold ..., ...	No. 2	15	...	...
		Thamba slabs.	...	...	Seshachellam.	,, 50	50	,, 50	50	...	...	...	No. 50	50
		Total, Timber.	...	18,594	...	...	91,265	...	109,859	...	...	15	...	109,844
	Cuddapah.	Firewood ...	...	...	Palconda ...	Ts. 3½	196	Ts. 3½	196	Sold	Ts. 3½	196	...	...
		Total, Fuel.	...	...	...	Ts. 3½	196	Ts. 3½	196	...	Ts. 3½	196	...	...
		Gallnuts B.	...	Mds. 999	...	...	...	...	Mds. 999	...	...	...	...	Ms. 999
		Do. C.	...	...	Kurapalle depot.	...	Ms. 1,666½	...	,, 1,666½	Sold ... Dryage ...	... ...	1,515½ 150½	...	...
	Mamillapalle.	Do. C.	...	Mds. 355	Palconda forests.	...	,, 293	...	,, 648	Sold	...	630	...	Ms. 18
	Wontimitta.	Do. C.	...	,, 882	Do. ...	...	,, 133	...	,, 1,015	...	...	...	...	,, 1,015
		Do. B.	...	,, 151	...	...	...	...	,, 151	...	...	...	...	,, 151
	Kurapalle.	Do. C.	...	,, 2,035	Palconda ...	...	138	...	2,173	Sent to Cuddapah. Sold ... Dryage ...	... ...	1,666½ 342½ 164	...	...
	Pulisettivandlapalle.	Do. C.	...	733	Do. ...	...	233	...	966	Do. ...	...	378	...	
	Cuddapah.	Wax ...	...	...	Badvel depot.	...	1 lb.	...	1 lb.	Sold	...	1 lb.	...	...
		Honey ...	...	...	Do. ...	Bottles 12.	1	Bottles 12	1	Do. ...	12 bottles.	1	...	...
		Oranges † ...	...	...	Horsley Konda.	No. 2,504	33½	No. 2,504	33½	Do. ...	No. 2,504	33½	...	...
		Rathipuvu.	...	...	Do. ...	...	31	...	31	Sent to Bellary and Anantapur D. F. O.'s office for sale.	...	31	...	...
		Total, Minor Produce.	...	Mds. 5,155	...	...	Mds. 2,529	...	Mds. 7,684	...	...	Mds. 4,913	...	M. 2,771
Kurnool.	Nandikotkur, &c.	Gallnuts B.	...	Mds. 1,530	...	...	...	...	Mds. 1,530	Written off as valueless.	...	Mds. 1,530	...	...
		Total, Minor Produce.	...	Mds. 1,530	...	...	...	...	Mds. 1,530	...	...	Mds. 1,530	...	...
Bellary.	Hospet...	Firewood ‡	Tons. 11	759	Sandur ...	Tons. 84	5,796	Tons. 95	6,555	Sold ...	Tons. 70	4,830	Tons. 25	1,725
	Bellary...	Creeper fuel.	...	...	Do. ...	,, 9½	655	,, 9½	655	...	...	...	,, 9½	655
		Total, Fuel...	11	759	...	Tons. 93½	6,451	Tons. 104½	7,210	...	Tons. 70	4,830	Tons. 34½	2,380
	Bellary...	Kapila dye.	lbs. 20	...	...	...	...	lbs. 20	...	Sold	lbs. 20	...	...	...
		Total, Minor Produce.	lbs. 20	...	...	...	...	lbs. 20	...	...	lbs. 20	...	...	...
Anantapur.	Gooty ...	Palmyra ...	1	2	...	...	...	1	2	Used for demarcation.	1	2	...	...
		Total, Timber	1	2	...	...	...	1	2	...	1	2	...	...

* 1 bundle rattan = 3 maunds of 25 lb. each.
† 75 fruits to a maund.
‡ 1 ton = 69 c. ft. according to Railway specification.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1888-89—*cont.*

District.	Name of Depot.	Description of Timber and other Produce.	On hand, 1st April 1888.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1889.	
			Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Anantapur.	Bukkapatnam.	Honey	Mds. 1½	...	Penukonda / Hindupur	Mds. 129½	...	Mds. 131		Sold	Mds. 9		Mds. 122	...
		Wax	...	..	Do.	,, 5½	..	,, 5½	..	Do.	,, 5		,, ½	
		Gallnuts B.	Mds. 232	...		...		232		Written off accts.	,, 232		..	...
		Do. C.	...	...	Penukonda range.	Mds. 86½		,, 86½	..	Sold ..	,, 86½		...	...
		Tamarind ..	Mds. 4½	...	...	...	..	,, 4½	.	Do. ...	,, 4½		...	...
		Yellama gum.	...	...	...	Mds. 52½	...	,, 52½	.	Do. ...	,, 2		Mds. 50½	...
		Yepi fibre ...	...	...	...	,, 2		,, 2		Do. ..	,, 2		...	...
		Sira nuts ...	...	...	...	Meas. 7½	or ½ md.	Meas. 7½	or ½ md.		...		Meas. 7½	or ½ md.
	Gooty	Babul pods.	Mds.1,658	...	...	...	..	,, 1,658	..	Written off accts.	Mds. 1,658	..	...	...
		Do. bark.	Mds. 1	...	...	...	...	,, 1	...	Do. ...	,, 1	..	...	...
		Gum ...	,, 1½	...	...	...	..	Mds. 1½	.		...	...	Mds. 1½	...
		Total, Minor Produce.	Mds.1,898	...	...	Mds. 276½	...	Mds. 2,174½	...		Mds.2,000	...	Mds. 174½	...
Nilgiris.	Coonoor.	Acacia rafters.	211	105½	Forests ...	532	266	743	371½	Sold	190	95	363	181½
										Used deptly.	190	95		
		Acacia planks.	...	...	Do. ...	62	62	62	62	Do. ...	51	51	9	9
										Sold	2	2		
		Drag poles...	487	487	Coonoor peak.	1,930	1,930	3,357	3,357	Do. ...	2,069	2,069	98	98
					Bleak house.	940	940			Conversion ...	650	650		
										Used deptly.	540	540		
		Total, Timber.	698	592½	...	3,464	3,198	4,162	3,790½	...	3,692	3,502	470	288½
	Ootacamund.	Firewood ...	Lots 30½ (48 tons.)	3,050	Governor's shola.	Lts. 131½	13,150	Lots 543½	54,350	Sold	Lots 443	44,300	Lts. 44½	4,475
					Cairn Hill ...	,, 113	11,300			Used deptly.	¾	75		
					Aramby ...	,, 268½	26,850			Dryage ...	55	5,500		
		Bark ...	...	...	Found in depot.	Ct. lds. 3	60	Ct. lds. 3	60	Sold	Ct. lds. 3	60	...	...
		Charcoal *...	Bags 30 (½ ton)	268	Coonoor ...	Bgs. 637	5,687	Bags 667	5,955	Do. ...	Bgs. 631	5,634	Bgs 34	303
										Wastage ...	Do. 2	18		
	Coonoor.	Firewood ...	Lots 59½ (93 tons.)	5,950	Coonoor Peak.	Lts. 168½	16,850	Lots 231	23,100	Sent to Wellington.	Lots. 1½	175	Lts. 94½	9,425
					Conversion in depot.	,, 2	200			Sold	Do. 99½	9,950		
					Ghat reserve.	,, 1	100			Dryage ...	35½	3,550		
		Bark ...	...	...	Found in depot.	Ct.lds. 55	1,100	55	1,100	Sold	Ct.lds. 55	1,100	...	...
	Wellington.	Firewood ...	Lots 56¾ (89 tons.)	5,675	Coonoor Peak.	Lts. 557	55,700	656	65,600	Sold	Lots. 510½	51,050	77	7,700
					Bandy shola .	,, 1¾	175			Used deptly.	,, 3	300		
					Bleak house .	,, 38½	3,850			Dryage ...	,, 65½	6,550		
					Sim's Park ...	,, ¾	25							
					Coonoor depot.	,, 1¾	175							
		Charcoal ...	Bags 26 (⅛ ton.)	232	Bandy shola.	Bgs. 434	3,875	Bags 460	4,107	Sold	Bgs. 416	3,714	Bgs. 44	393
		Bark ...	...	...	Found in depot.	Ct.lds. 18½	365	Ct. lds. 18½	365	Do. ...	Ct.lds.18½	365	...	...
		Chips ...	...	...	Do. ...	,, 57½	1,145	,, 57½	1,145	Do. ...	,, 57½	1,145	...	...
		Total, Fuel...	...	15,175	...	...	140,607	...	155,782	...	...	133,486	...	22,296
	Coonoor.	Gallnuts ...	...	...	Melur ...	Mds. 22	...	Mds. 22	...	...	...	...	Mds. 22	...
		Total, Minor Produce.	...	...	...	Mds. 22	...	Mds. 22	...	...	...	...	Mds. 22	...

* 1 bag = 50 lb. = 500 lb. firewood.

ANNUAL FORM No. 71.

Forest Department, Madras, Northern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89.

District.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
			SOLD FROM DEPOT.				RS. A. P.	RS. A. P.		
Ganjam.	Russellkonda.	I (a)	Sal logs	185	633	.....	119 0 0	90 8 0	...	...
			,, blocks	19	52	Rs. 0 3 0	9 12 0	9 12 0	...	...
			,, sleepers	9	20	.....	2 9 0	2 9 0	...	...
			,, slabs, &c.	299	100	.....	6 5 0	6 5 0	...	...
			Timber of old temporary sheds.	...	...	.....	13 0 0	13 0 0	...	...
	Berhampore.		Piasal logs	2	19	Rs. 0 6 0	7 10 0	7 10 0	...	...
			Sal rafters	16	23	.....	16 2 0	16 2 0	...	...
			Do.	43	352	.....	211 14 0	211 14 0	...	...
	Gopalpur		Sal sleepers	2,528	8,888	.....	6,059 0 0	6,059 0 0	...	...
			,, scantlings	142	155	.....	113 13 2	113 13 2	...	...
			,, slabs	4,350	1,450	.....	161 1 9	161 1 9	...	...
			,, rafters	161	183	.....	86 13 4	86 13 4	...	...
			Satinwood logs	3	31	.....	18 12 0	18 12 0	...	...
			Sajo logs	1	8	Rs. 0 4 0	2 0 0	2 0 0	...	...
			,, sleepers	2	6	,, 1 4 9	2 9 6	2 9 6	...	...
			Piasal	2	24	,, 0 8 0	12 0 0	12 0 0	...	...
			Dhau	1	12	,, 0 4 0	3 0 0	3 0 0	...	...
			Miscellaneous	5	27	,, 0 4 0	6 12 0	6 12 0	...	...
	Dowlaishwaram.		Satinwood scantlings.	4	14	.....	21 4 0	21 4 0	...	...
			Dhau ,,	4	14	.....	17 11 4	17 11 4	...	...
			Sajo ,,	4	14	.....	17 11 4	17 11 4	...	...
	Madras		Dhau logs	9	150	Rs. 0 8 0	74 9 3	74 9 3	...	...
			Sajo ,,	8	151	,, 0 8 0	75 8 0	75 8 0	...	...
			Satinwood logs	8	92	,, 1 0 0	92 8 0	92 8 0	...	...
			Total, Timber	...	12,418	.....	7,151 5 8	*7,122 13 8	...	...
	Russellkonda. Berhampore Gopalpur	I (b)	Firewood	Tons 7	520	.....	5 10 6	5 10 6	...	...
			Do.	,, 24	1,680	Rs. 5 0 0	120 0 0	120 0 0	...	...
			Do.	,, 3	211	.....	12 0 6	12 0 6	...	...
			Charcoal	lb. 82	14	.....	2 0 0	2 0 0	...	...
			Chips	...	37	.....	2 10 6	2 10 6	...	...
			Total, Fuel	...	2,462	.....	142 5 6	† 142 5 6	...	...
	Surada	I (e)	Gallnuts	...	Mds. 57	.....	3 0 0	3 0 0	...	...
			Gum	...	,, 1	.....	0 8 0	0 8 0	...	...
			Total, Minor Produce	...	Mds. 58	.....	3 8 0	3 8 0	...	...
			Total, Ganjam	...	...	.....	7,297 3 2	7,268 11 2	...	...
Vizagapatam.	Rajam	I (a)	Sal rafters	29	43½	Rs. 2 0 0	14 10 0	14 10 0	29	...
			Nallamaddi logs	8	84		16 0 0	16 0 0	8	...
			Miscellaneous	11	16½		6 15 0	6 15 0	11	...
			Total, Timber	48	144	.....	37 9 0	37 9 0	48	...
			Total, Vizagapatam	...	...	.....	37 9 0	37 9 0	...	...
Godavari.	Madras	I (a)	Satinwood	2	6	Rs. 1 0 0	6 8 0	6 8 0	2	...
			Ironwood	1	15	,, 0 8 0	7 8 0	7 8 0	1	...
			Miscellaneous	3	29	,, 0 8 0	14 8 0	14 8 0	3	...
			Total, Timber	6	50	.....	28 8 0	28 8 0	6	...
			Total, Godavari	...	...	.....	28 8 0	28 8 0	...	...
Nellore.	Madras	I (b)	Junglewood	1,427,019	71,129	Rs. 2 10 0 to ,, 15 0 0	14,867 0 10	14,867 0 10	1,427,019	...
			Sulli bundles	9,783	13,044	As. 3½ to As. 2.	1,792 7 0	1,792 7 0	9,783	...
			Casuarina wood	Tons 601½	24,060	Rs. 5½ to Rs. 8.	4,302 6 1	4,302 6 1	601½	...
			Total, Fuel	...	1,08,233	.....	20,961 13 11	20,961 13 11	...	...
		I (e)	Rattans, bundles	128	Mds. 384	Rs. 5 12 0	736 0 0	736 0 0	128	...
			Sarsaparilla	...	,, 226½	,, 1 8 0	309 6 0	309 6 0	Mds. 226½	...
			Total, Minor Produce	...	Mds. 610½	.....	1,045 6 0	1,045 6 0	...	...
			Total, Nellore	...	...	.....	22,007 3 11	22,007 3 11	...	...
Cuddapah.	Cuddapah	I (a)	Teak logs	2	15	Auction.	18 4 0	18 4 0	2	...
			Total, Timber	2	15	.....	18 4 0	18 4 0	2	...
	Cuddapah	I (b)	Firewood	Tons 2	112	Rs. 6 8 0 per ton.	13 0 0	13 0 0	Tons 2	...
			Do.	,, 1½	84	Auction.	8 2 0	8 2 0	,, 1½	...
			Total, Fuel	Tons 3½	196	.....	21 2 0	21 2 0	Tons 3½	...
	Badvel	I (e)	Wax	lb. 1	...	Auction.	0 6 0	0 6 0	lb. 1	...
	Cuddapah		Gallnuts	...	1,514¼ mds.	Rs. 0 6 3	591 6 6	591 6 6	Mds. 1,514¼	...
			Galls	...	1½ ,,	Auction.	3 11 9	3 11 9	,, 1½	...
	Mamillapalle Kurrapalle		Honey	Bottles 12	1 ,,	As. 12	9 0 0	9 0 0	Bots. 12	...
			Oranges	No. 2,504	33½ ,,	.....	38 15 0	38 15 0	No. 2,504	...
			Gallnuts	...	630 ,,	As. 10	403 9 6	403 9 6	Mds. 630	...
			Do.	...	342½ ,,	.....	154 0 0	154 0 0	,, 342½	...
			Total, Minor Produce	...	2,522¾	.....	1,201 0 9	1,201 0 9	...	...
			Total, Cuddapah	...	...	.....	1,240 6 9	1,240 6 9	...	...

	RS.	A.	P.
* Sales from depot	7,122	13	8
Do. locally	79	12	0
	7,202	9	8
Add receipts on account of previous year	1,614	2	4
	8,816	12	0 J(a).

‡ Rs. 120 not accounted for.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces &c., removed.	Number sold, but remaining unremoved.
							Rs. A. P.	Rs. A. P.		
Bellary.	Hospet ...	I (b)	Firewood	Tons. 45	3,103	..	310 0 0	310 0 0	Tons 45	..
			Do.	,, 25	1,725	Auction.	31 4 0	31 4 0	,, 25	..
			Total, Fuel	Tons 70	4,830	....	341 4 0	341 4 0	Tons 70	
	Bellary ...	I (e)	Kapila dye	lbs. 20		Rs. 12 0 0 per md.	9 9 7	9 9 7	lbs. 20	..
			Total, Minor Produce...	lbs. 20	...	..	9 9 7	9 9 7	lbs. 20	
			Total, Bellary .	.		... ..	350 13 7	350 13 7		.
Anantapur.	Bukkapatnam...	I (e)	Honey	...	Mds. 9	Rs. 2 4 0	20 1 9	20 1 9	Mds. 9	.
			Wax	...	,, 5	...	47 8 0	47 8 0	,, 5	
			Gallnuts . .	...	,, 86½	Rs. 0 10 6	56 11 5	56 11 5	,, 86½	..
			Yellama gum	...	,, 2	,, 2 8 0	5 0 0	5 0 0	,, 2	..
			Tamarind	...	,, 4½	,, 0 4 0	1 2 0	1 2 0	,, 4½	.
			Yepi fibre	...	,, 2	.....	1 1 6	1 1 6	,, 2	..
			Total, Minor Produce...	...	Mds. 109	.....	131 8 8	131 8 8	Mds. 109	..
			Total, Anantapur...	...	...	.....	131 8 8	131 8 8	...	..
Nilgiris.	Coonoor ...	I (a)	Planks	2	2	As. 14	1 12 0	1 12 0	2	...
			Rafters	190	95	.....	107 1 4	107 1 4	190	...
			Drag poles	2,069	2,069	As. 2	258 10 0	258 10 0	2,069	...
			Total, Timber ..	2,261	2,166	.....	367 7 4	367 7 4	2,261	...
	Ootacamund ...	I (b)	Firewood	Lots 443	44,300	Rs. 3	4,643 15 11	4,627 10 10	Lots 443	...
			Charcoal	Bags 631	5,634	Re. 1	631 0 0	631 0 0	Bags 631	...
			Bark	Ct. lds. 3	60	Auction.	0 14 0	0 14 0	Ct. lds. 3	...
	Coonoor ...	...	Firewood	Lots. 99½	9,950	.....	775 4 0	775 4 0	Lots 99½	...
			Bark	Ct. lds. 55	1,100	Auction.	13 12 0	13 12 0	Ct. lds. 55	...
	Wellington ...	...	Firewood	Lots 510½	51,050	.....	4,786 10 11	4,786 10 11	Lots 510½	...
			Charcoal	Bags 416	3,714	Re. 1	416 0 0	416 0 0	Bags 416	...
			Bark	Ct. lds. 18½	365	Auction.	12 2 8	12 2 8	Ct. lds. 18½	...
			Chips	Ct. lds. 57½	1,145	As. 5.	17 14 3	17 14 3	Ct. lds. 57½	...
			Total...	...	117,318	.....	11,297 9 9	*11,281 4 8	...	...
			Total, Nilgiris...	...	...	.....	11,665 1 1	11,648 12 0	...	...
			Total, sold from Depot...	...	...	.....	42,758 6 2	42,713 9 1	...	...
			SOLD LOCALLY.							
Ganjam.	Gayagonda ...	I (a)	Sal logs	88	590	.....	16 0 0	16 0 0	Sold in 1887, but not entered in return of 1887-88.	
			Piasal logs	1	7	.....	1 0 0	1 0 0		
			Sajo do.	2	12	.....	1 0 0	1 0 0		...
			Ebony do.	4	24	.....	1 0 0	1 0 0		
			Miscellaneous	4	46	.....	1 0 0	1 0 0		
	Jaganathprasad.	...	Slabs	144	...	.....	28 12 0	28 12 0	...	...
			Slabs	107	...	.....	31 0 0	31 0 0	...	...
			Total, Timber...	350	679	.....	79 12 0	79 12 0	...	...
	Darpangia and Gullery. Pondakhol.	I (b)	Firewood	61	4,278	.....	30 0 0	30 0 0	...	...
			Do.	130¼	9,067	.....	32 6 7	...	...	...
			Total, Fuel...	191¼	13,345	.....	62 6 7	30 0 0	...	...
	Buguda ...	I (e)	Mango fruit	...	Md. 1	Auction.	0 8 0	0 8 0	...	...
			Moholo flowers	...	Mds. 40		4 0 0	4 0 0	...	...
			Total, Minor Produce...	...	Mds. 41	.....	4 8 0	4 8 0	...	...
			Total, Ganjam...	...	...	.....	146 10 7	114 4 0	...	...
Godávari.	Rekapalle ...	I (b)	Firewood	...	486	Re. 1 per c. yard.	18 0 0	18 0 0	C. ft. 486	...
			Total, Fuel...	...	486	.....	18 0 0	18 0 0	C. ft. 486	...
			Total, Godávari...	...	...	.....	18 0 0	18 0 0	...	...
Kistna.	Bezváda ...	I (a)	Tumma poles	81	81	Auction.	10 4 6	10 4 6	81	...
	Guntur.		Do.	123	20	.....	2 8 0	2 8 0	123	...
	Palnad ...		Thorns	72	360	.....	4 1 0	4 1 0	72	...
			Do.	560	2,800	.....	3 1 0	3 1 0	560	...
			Total, Timber...	836	3,261	.....	19 14 6	19 14 6	836	...
	Bezváda ...	I (b)	Firewood	...	20	Auction.	1 9 0	1 9 0	C. ft. 20	...
	Krosur ...		Do.	...	9,320	.....	31.14 0	31 14 0	,, 9,320	...
	Guntur ...		Do.	...	140	.....	26 4 0	...	,, 140	...
	Bapatla ...		Do.	...	10	.....	0 4 0	0 4 0	,, 10	...
	Palnad ...		Do.	...	500	.....	6 0 0	6 0 0	,, 500	...
			Total, Fuel...	...	9,990	.....	65 15 0	39 11 0	C. ft. 9,990	...
			Total, Kistna...	...	...	.....	85 13 6	59 9 6	...	...

* Sales from depot ... Rs. A. P. 11,281 4 8
Do. locally ... 6,270 11 3
† 17,551 15 11

† Audited figures give Rs. 17,766, the Rs. 214 difference is not explained, but is probably due to collection of outstandings.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Depot. or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
							Rs. A. P.	Rs. A. P.		
Nellore	Casuarina plantation.	I (*b*)	Casuarina wood ...	Tons 4,012	160,480	Rs. 5-3-0 & Rs. 5-4-0	20,828 8 1	20,828 8 1	Tons 4,012	...
			Fuel	Cart lds. 5	100	Rs. 1 to Rs. 2-8-0	13 8 6	13 8 6	Cart lds. 5	...
			Pegs and stakes* ...	pieces 23,900	16,650	...	119 8 0	48 12 9	Pieces 23,900	...
			Total, Fuel ...	...	177,230	...	20,961 8 7	20,890 13 4	...	...
	Striharikota ...	I (*e*)	Soapnuts	...	Mds. 1,070	Rs. 9 per candy	481 8 0	481 8 0	Mds. 1,070	...
			Orchella	...	,, 8	,, 46 ,,	18 15 7	18 15 7	,, 8	...
			Chey root	...	,, 696	,, 75 ,,	2,610 0 0	2,610 0 0	,, 696	...
			Sarsaparilla*	...	...	...	30 0 0	30 0 0	...	...
			Total, Minor Produce ...	...	Mds. 1,774	...	3,140 7 7	3,140 7 7	Mds. 1,774	...
			Total, Nellore ...	...	...	...	24,102 0 2	24,031 4 11	...	...
Cuddapah.	Kodur ...	I (*a*)	Teak posts	3	3	Auction.	96 6 0	96 6 0	212	...
			Red wood	73	73					
			Miscellaneous timber ...	136	136					
	Settigunta ...		Red sander posts ...	17	17	Do.	6 0 0	6 0 0	32	...
			Miscellaneous	15	15					
	Rajampet ...		Red sander posts ...	350	350	Do.	48 4 0	48 4 0	350	...
			Yellama	280	280				280	...
	Cuddapah* ...		Do.	8	400	Do.	15 2 0	15 2 0	8	...
			Palmyra trees	12	24	Do.	59 11 0	59 11 0	12	...
	Rayachoti ...		Red sander poles ...	100	100	Do.	81 0 0	81 0 0	50	50
	Seshachellam ...		Miscellaneous timber ...	48	48	Do.	14 4 0	14 4 0	48	...
			Total, Timber ...	1,042	1,446	...	320 11 0	320 11 0	992	50
	Kodur	I (*b*)	Firewood	Tons 1	56	12 as. per ton.	0 12 0	0 12 0	Ton 1	...
	Kothakota ...		Do.	,, 93½	5,236	20½ tons at 8 as. & the rest at 12 as.	65 0 0	65 0 0	,, 93½	...
	Sancherla ...		Do.	,, 40	2,240	20 tons at 5 as. & 20 tons at 8 as.	16 4 0	16 4 0	,, 40	...
	Gopavaram ...		Do.	,, 14	784	As. 12	10 8 0	10 8 0	,, 14	...
	Kalasapad ...		Do.	,, 47	2,632	...	20 10 0	20 10 0	,, 47	...
	Lankamalais ...		Do.	,, ½	28	As. 12	0 6 0	0 6 0	,, ½	...
	Ganugapenta ...		Do.	,, ½	28	As. 12	0 6 0	0 6 0	,, ½	...
	Kavalakunta ...		Do.	,, 7½	420	Auction.	2 0 0	2 0 0	,, 7½	...
	Kanchalamoram.		Do.	,, ½	28	As. 12	0 6 0	0 6 0	,, ½	...
			Total, Fuel ...	Tons. 204½	11,452	...	116 4 0	116 4 0	Tons 204½	...
	Madanapalle ...	I (*e*)	Coffee	...	Mds. 2½	Rs. 8 per md.	19 0 0	19 0 0	Mds. 2½	...
			Pears	120	,, 1½	...	2 15 0	2 15 0	No. 120	...
			Pomegranates	76	,, 1	Auction	1 12 0	1 12 0	,, 76	...
			Pumelos	1,466	,, 91½	...	17 14 6	17 14 6	,, 1,466	...
			Jack fruits	16	,, 8	...	4 5 0	4 5 0	,, 16	...
			Mangoes	376	,, 17¼	100 at Rs. 3 & the rest by auction.	6 2 0	6 2 0	,, 376	...
			Do.	924		100 at Rs. 2-8-0 & the rest by auction.	22 0 0	22 0 0	,, 924	...
			Oranges	5,142	,, 68½	100 at Rs. 1-8-0 & 1,567 at Re. 1 per 100 & the rest by auction.	35 1 9	35 1 9	,, 5,142	...
			Total, Minor Produce ...	8,120	Mds. 190½	...	109 2 3	109 2 3	...	...
			Total, Cuddapah ...	...	...	...	546 1 3	546 1 3	...	...
Kurnool.	Nandyal ...	I (*a*)	Miscellaneous poles ...	64	640	...	95 0 0	95 0 0	64	...
			Felloes	447	37	Rs. 9 per pair of 12 felloes & 24 spokes.	336 15 0	336 15 0	447	...
			Spokes	903	113				903	...
			Total, Timber ...	1,414	790	...	431 15 0	431 15 0	1,414	...
	Kurnool ...	I (*b*)	Firewood ...	Cart lds. 13	260	Rs. 3-6-0 per cart	43 14 0	43 14 0	Cart lds. 13	...
			Total, Fuel ...	Cart lds. 13	260	...	43 14 0	43 14 0	Cart lds. 13	...
	Nandikotkur ...	I (*e*)	Yellama gum	...	Mds. 10¾	9 mds. at Rs. 3 & 1¾ mds. at Rs. 3-9	32 15 0	32 15 0	Mds. 10¾	...
	Markapur ...									
	Nandyal ...		Soapnuts	...	,, 5¾	Rs. 27 per 640 seers.	9 11 0	9 11 0	,, 5¾	...
			Honey	...	,, 5	Rs. 1 12 0	9 0 0	9 0 0	,, 5	...
			Gallnuts	...	,, 21¾	17 mds. at 6 annas & 4¾ mds. at 2½ mds. per rupee.	8 4 0	8 4 0	,, 21¾	...
	Cumbum ...		Marking nuts	...	,, ¾	3 pies per seer.	0 4 6	0 4 6	,, ¾	...
			Tamarind	...	,, 122¾	...	37 4 0	37 4 0	,, 122¾	...
			Do.	...	...	...	2 0 0	2 0 0	...	...
			Total, Minor Produce ...	...	166½	...	99 6 6	99 6 6	166½	...
			Total, Kurnool ...	...	...	...	575 3 6	575 3 6	...	...
Bellary.	Sandur ...	I (*a*)	Teak poles	400	1,200	Rs. 1 2 0	450 0 0	450 0 0	400	...
			Rafters	1,636	3,272	Per 100 0 14 8	237 7 0	237 7 0	1,636	...
			Total, Timber ...	2,036	4,472	...	687 7 0	687 7 0	2,036	...
	Sandur	I (*b*)	Railway fuel	Tons 1,273	87,837	As. 12 to Rs. 1-9-0	1,443 15 0	1,443 15 0	Tons 1,273	...
	Adoni ...		Rejected wood	,, 20½	1,414	Auction.	48 10 0	48 10 0	,, 20½	...
			Dead tree & stumps ...	No. 33	64	...	1 0 0	1 0 0	No. 33	...
			Total, Fuel ...	...	89,315	...	1,493 9 0	1,493 9 0	...	...

* Deposit.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
							Rs. A. P.	Rs. A. P.		
Bellary —*cont.*	Sandur ...	I (*c*.)	Large bamboos ...	75	...	Rs.115 per 100	11 4 0	11 4 0	75	.
			Middle size ,, ...	150	..	,, 6¼ ,, ,,	9 12 0	9 12 0	150	
			Small ,, ,, ...	57,962	..	,, 2¼ ,, ,,	1,593 15 6	1,593 15 6	57,962	
			Total, Bamboos ..	58,187	..		1,614 15 6	1,614 15 6	58,187	
	Do. ...	I (*e*)	Kapila dye	lbs. 5	...	Auction.	0 13 0	0 13 0	lbs. 5	
			Tamarind	...	Mds. 43	do.	0 3 0	0 3 0	Mds. 43	
	Bellary ...		Honey	...	,, 9	Rs. 3-8-0 per md.	28 3 6	28 3 6	,, 9	
			Wax	...	,, 2	..	16 10 8	16 10 8	,, 2	
			Total, Minor Produce ...	lbs. 5	Mds. 54	..	45 14 2	45 14 2	Mds. 54	..
			Total, Bellary .	...	..	...	3,841 13 8	3,841 13 8	...	..
Anantapur.	Muchukota ...	I (*a*)	Yepi pieces	1,575	1,575	Auction.	81 7 2	81 7 2	1,575	..
			Total, Timber ...	1,575	1,575	...	81 7 2	81 7 2	1,575	...
	Do. ...	I (*b*)	Brushwood	4 cart loads	80	Auction.	1 8 0	1 8 0	4 cart loads	...
			Total, Fuel ...	4 cart loads	80	...	1 8 0	1 8 0	4 cart loads	..
	Do. ...	I (*e*)	Yepi fibre	...	Mds. 50	8 as.	25 0 0	25 0 0	Mds. 50	..
	Vanavole ...		Wax	...	,, 1½	Rs. 8	9 12 0	9 12 0	,, 1½	...
			Honey	...	,, ¼	...	1 0 0	1 0 0	,, ¼	..
			Yellama gum	...	,, 23	Rs. 2-8-0	53 5 9	53 5 9	,, 23	...
						10 as.	1 1 6	1 1 6		
			Saranuts	45 measures or 5 measures of pulp.	,, 4	5 as.	1 9 0	1 9 0	,, 4	...
	Kondapuram		Tamarind...	...	,, 9	Auction.	4 4 0	4 4 0	,, 9	...
			Kanuga seeds †	Tooms 12½ or	,, 20				12½ tooms or 20 mds.	
			Total, Minor Produce ...	...	Mds. 107½	...	96 0 3	96 0 3	Mds. 107½	...
			Total, Anantapur ...	...	...	...	178 15 5	178 15 5	...	...
Nilgiris	Coonoor	I (*a*)	Slabs	3½ loads	100	...	4 0 0	4 0 0	3½ loads.	...
	Kotagiri ...		Planks	No. 1	1	Re. 1	1 0 0	1 0 0	1 No.	...
			Rafters	34	17	...	20 15 0	20 15 0	34 ,,	...
			Drag poles	235	235	...	42 12 0	42 12 0	235 ,,	...
			Blackwood	3	94	...	35 2 11	35 2 11	3 ,,	...
			,, pieces ...	12	28	...	4 4 0	4 4 0	12 ,,	...
			Teak	12	270	...	51 14 10	51 14 10	12 ,,	...
			,, pieces	1,615	7,427	...	594 6 6	594 6 6	1,615 ,,	...
	Mudumalai and Benne		Vengai ,, ...	86	150	...	37 15 5	37 15 5	86 ,,	...
			Junglewood pieces ...	194	1,200	...	27 14 0	27 14 0	194 ,,	...
			Teak	476	12,315	...	8,204 3 4	7,204 3 4	476 ,,	...
			,, poles	31	95	...	31 12 0	31 12 0	31 ,,	...
			Vengai	152	5,158	...	1,876 10 1	1,876 10 1	152 ,,	...
			Blackwood	12	676	...	325 7 0	325 7 0	12 ,,	...
			Mutti logs	24	898	...	232 14 2	232 14 2	24 ,,	...
			Drag poles	7	7	...	0 14 0	0 14 0	7 ,,	...
			Total, Timber ...	...	28,661	...	11,492 1 3	10,492 1 3	...	...
	Aramby ...		Eucalyptus firewood ...	486 lots.	48,600	...	2,188 15 0	2,188 15 0	486 lots.	...
			Do. ...	3,069 hd. loads.	3,069	1 as.	191 13 0	191 13 0	3,069 hd. loads.	...
			Eucalyptus leaves ...	838 ,,	838	...	13 1 6	13 1 6	838 ,,	...
	Cairn Hill ...		Firewood	109¾ lots.	10,975	...	834 12 0	834 12 0	109¾ lots.	...
			Do.	3,939 hd. loads.	3,939	...			3,939 hd. loads.	...
			Creepers	284 ,,	284	...	17 12 0	17 12 0	284 ,,	...
	Governor's Shola.		Eucalyptus leaves ...	80 ,,	80	3 pies.	1 4 0	1 4 0	80 ,,	...
			Eucalyptus firewood ...	200 lots.	20,000	...	1,050 1 0	1,050 1 0	200 lots.	...
			Do.	2,801 hd. loads.	2,801	...			2,801 hd. loads.	...
	Snowdon ...		Acacia firewood ...	3 lots.	300	...	18 0 0	18 0 0	3 lots.	...
	Lovedale ...		Shola ,, ...	2 ,,	200	...	11 0 0	11 0 0	2 ,,	...
	Coonoor Peak.	I (*b*)	Eucalyptus ,, ...	68¾ ,,	6,875	...	1,032 9 0	1,032 9 0	68¾ lots.	...
			Do.	333 bullock loads.	1,332	...			333 bullock loads	...
			Do.	9,450 hd. loads.	9,450	...			9,450 hd. ,,	...
	Bleak House...		Do.	15 lots.	1,500	...	479 0 0	479 0 0	15 lots.	...
			Do.	110 bullock loads.	440	...			110 bullock loads.	...
			Do.	6,662 hd. loads.	6,662	...			6,662 hd. loads.	...
			Slabs	3 cart loads	60	Rs. 1-8-0	4 8 0	4 8 0	3 cart loads	
	Bandy shola ...		Acacia firewood ...	7 lots.	700	...	220 6 0	220 6 0	7 lots.	...
				585 bullock loads.	2,340	...			585 bullock loads.	...
				1,195 hd. loads.	1,195	...			1,195 hd. loads.	...
			Wattle	2 cart loads	40	Rs. 2	4 0 0	4 0 0	2 cart loads.	...
			Acacia charcoal ...	26 bags.	232	...	24 8 0	10 0 0	26 bags.	...
	Sim's Park ...		Shola firewood ...	1 cart load	20	...	2 0 0	2 0 0	1 cart load.	...
				8 hd. loads	8	...			8 hd. loads.	...
	Rallia		Eucalyptus ,, ...	17 bull ,,	68	...	95 11 0	95 11 0	17 bull ,,	...
				1,480 hd. ,,	1,480	...			1,480 hd. ,,	...
	Town shola ...		Shola firewood	184 ,, ,,	184	...	11 8 0	11 8 0	184 ,, ,,	...
	Burliyar ...		Do.	15 lots.	1,500	...	26 2 0	26 2 0	15 lots.	...
	Kotagiri ...		D	4½ lots	425	Rs. 1-8-0	22 12 9	22 12 9	4½ lots.	...
			Charcoal	35½ bags.	317	Re. 1 per. 50 lb.	35 8 0	35 8 0	35½ bags.	...
			Total, Fuel ...	...	125,914	...	6,285 3 3	6,270 11 3	...	...
	Sigur	I (*d*)	Sandalwood	...	Mds. 1,792	Rs. 3-14-2	6,965 6 10	6,965 6 10	Mds. 1,792	...
			Total, Sandalwood ...	...	Mds. 1,792	...	6,965 6 10	6,965 6 10	Mds. 1,792	...

† 1 toom = 64 seers.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
							Rs. A. P.	Rs. A. P.		
Nilgiris	Ootacamund and Naduvatam.	I (*e*)	Gallnuts	Mds. 500	...	...	343 12 0	343 12 0	Mds. 500	...
			Sheakoy	,, 94	...	...	54 4 0	54 4 0	,, 94	...
	Coonoor and Kullar.	Do.	Gallnuts	,, 36	...	As. 10	22 8 0	22 8 0	,, 36	...
			Sheakoy	,, 25	...	...	15 10 0	15 10 0	,, 25	...
			Dammer	,, 3¾	...	As. 4	0 15 4	0 15 4	,, 3¾	...
			Honey	,, 12	...	...	31 4 0	31 4 0	,, 12	...
			Wax	,, ¾	...	...	7 5 0	7 5 0	,, ¾	...
	Kotagiri	Do.	Gallnuts	,, 757½	...	As. 14-3	602 7 4	602 7 4	,, 757½	...
			Sheakoy	,, 16¾	...	...	13 6 3	13 6 3	,, 16¾	...
			Tamarind	,, 9½	...	As. 13	6 12 2	6 12 2	,, 9½	...
			Horns	,, 7¼	...	Rs. 2½ to Rs. 6	15 10 4	15 10 4	,, 7¼	...
			Honey	Seers 3	...	...	0 7 0	0 7 0	Seers 3	...
			Wax	Mds. ¼	...	...	4 2 10	4 2 10	Md. ¼	...
	Sigur	Do.	Gallnuts	,, 267½	...	As. 8	133 13 5	133 13 5	,, 267½	...
			Sheakoy	,, 4½	...	,, 12	3 6 0	3 6 0	,, 4½	...
			Tamarind	,, 2½	...	,, 10	1 6 6	1 6 6	,, 2½	...
			Horns	,, 7¾	...	Rs. 2½	19 7 5	19 7 5	,, 7¾	...
			Honey	,, 2	...	Rs. 4	8 0 0	8 0 0	,, 2	...
			Wax	,, 1½	...	Rs. 8	12 0 0	12 0 0	,, 1½	...
	Mudumalai ...	Do.	Gallnuts	,, 1,260	...	...	665 9 0	549 15 6	,, 1,260	...
			Vembadam	,, 25½	...	...	45 4 0		,, 25½	...
			Tamarind	,, 110	...	As. 12	82 8 0		,, 110	...
			Horns	,, 9¾	...	Rs. 2	19 8 0		,, 9¾	...
			Honey	,, 1½	...	...	9 13 6		,, 1½	...
			Wax	,, 2¾	...	Rs. 10	27 5 0		,, 2¾	...
			.....	...	...	...	555 0 0	555 0 0	Part payments for produce.	...
			.....	...	...	...	100 0 0	100 0 0	Lease.	...
			.....	...	...	...	40 0 0	40 0 0	,, of coffee.	...
			Total ...	Mds. 3,158	...	...	2,841 9 1	2,541 9 1	...	...
			Total, Nilgiris ...	...	...	...	27,584 4 5	26,269 12 5	...	...
			Total, sold locally ...	...	...	...	57,078 14 6	55,635 0 8	...	...
			Drift and Confiscated Wood.							
Ganjam.	...	III	Sál	11	78	...	26 6 0	26 6 0	...	...
			Pinsal	2	19	...	8 14 6	8 14 6	...	...
			Miscellaneous	...	...	...	5 0 6	5 0 6	...	...
			Firewood	...	156	...	12 1 2	12 1 2	...	...
			Charcoal	...	40	...	7 0 0	7 0 0	...	...
			Bamboos	276	...	...	1 5 6	1 5 6	...	...
			Moholo flowers	...	Mds. 40	...	4 9 0	4 9 0	...	...
			Total ...	...	...	...	65 4 8	65 4 8	...	...
Vizaga-patam.	...	Do.	Timber	235	2,120	...	66 6 1	66 6 1	...	...
			Sugar-cane props ...	...	40	...	2 0 0	2 0 0	...	...
			Firewood	...	303	...	9 15 7	9 15 7	...	...
			Charcoal	...	300	...	3 10 0	3 10 0	...	...
			Bamboos	1,174	...	...	19 13 0	19 13 0	...	...
			Tangedu bark	...	Mds. 4	...	1 0 0	1 0 0	...	...
			Stones	...	...	...	8 14 0	8 14 0	...	...
			Total ...	...	...	...	111 10 8	111 10 8	...	...
Godávari.	...	Do.	Teak	1,637	12,968	Auction.	7,907 14 6	7,907 14 6	...	...
			Miscellaneous timber ...	380	2,499	...	319 8 1	319 8 1	* ...	...
			Fuel	...	6	...	0 8 7	0 8 7	...	...
			Teak	20	400	...	17 14 0	17 14 0	...	...
			Miscellaneous timber ...	...	1,280	...	57 1 6	57 1 6	...	...
			Fuel	...	716	...	34 2 7	34 2 7	† ...	...
			Bamboos	2,260	...	...	25 0 0	25 0 0	...	...
			Minor produce	...	Mds. 17	...	5 8 0	5 8 0	...	...
			Total ...	...	...	...	8,367 9 3	8,367 9 3	...	...
Kistna ...	...	Do.	Wood	...	200	Auction.	30 0 0	30 0 0	‡ ...	...
			Do.	...	2,967	...	218 11 10	218 11 10	...	...
			Fuel and charcoal ...	...	490	...	29 4 4	29 4 4	§ ...	...
			Bamboos	709	...	...	3 9 6	3 9 6	...	...
			Minor produce Mds.	127	...	...	4 8 9	4 8 9	...	...
			Total ...	...	...	...	286 2 5	286 2 5	...	...
Nellore...	...	Do.	Wood	...	200	Auction.	35 0 2	35 0 2	...	...
			Palmyra trees	...	80	...	2 15 0	2 15 0	...	...
			Total ...	...	...	...	37 15 2	37 15 2	...	...
Cudda-pah.	...	Do.	Red sanders	...	848	...	382 1 6	367 1 6	...	...
			Teak pieces	...	18	...	1 8 0	1 8 0	...	...
			Yepi	...	12	...	7 3 0	7 3 0	...	...
			Miscellaneous timber ...	...	2,072	...	318 7 5	318 7 5	...	...
			Firewood	...	1,022	...	63 3 0	63 3 0	...	...
			Charcoal	...	470	...	6 6 6	6 6 6	...	...
			Bamboos	2,495	...	...	28 1 0	28 1 0	...	...
			Minor produce	Mds. 186	...	...	6 0 0	6 0 0	...	...
			Total ...	...	...	...	812 14 5	797 14 5	...	...
Kur-nool.	...	Do.	Teakwood	...	50	...	33 0 0	33 0 0	...	...
			Miscellaneous wood ...	...	30,125	...	1,727 13 6	1,727 13 6	...	...
			Firewood	...	3,215	...	133 13 8	133 13 8	...	...

* Drift. † Confiscated. ‡ Drift. § Confiscated.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1888-89—*cont.*

District.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved
			Drift and Confiscated Wood—cont.				Rs. A. P.	Rs. A. P.		
Kurnool —*cont.*	...	III	Charcoal	...	740	...	25 0 0	25 0 0		...
			Bamboos	...	No. 607	...	8 10 0	8 10 0	...	...
			Stones	...	Mds. 75	...	4 4 0	4 4 0	...	...
			Axes	...	...	...	4 4 0	4 4 0	...	
			Total ...	...	...		1,936 13 2	1,936 13 2		
Bellary...	...	Do.	Wood	...	240	...	13 6 9	13 6 9		
			Palmyra jaggery ...	...	Mds. 2	...	0 5 9	0 5 9		
			Tangedu bark	...	90	...	25 0 4	25 0 4		
			Total ...	...	...	...	38 12 10	38 12 10	...	
Anantapur.	...	Do.	Margosa tree	1	20	...	1 11 0	1 11 0		
			Timber	...	42	...	8 3 7	8 3 7		
			Firewood	...	220	...	8 13 6	8 13 6		
			Grass	...	Mds. 10	...	0 5 8	0 5 8		
			Tangedu bark * ...	...	,, 630	...	860 0 0	860 0 0		
			Aloe fibre	...	,, 3	...	0 8 6	0 8 6		
			Tamarind fruit ...	...	,, 2	...	0 2 0	0 2 0		
			Total ...	...	...	...	879 12 3	879 12 3	...	
Nilgiris.	Coonoor ...	Do.	Rafters	...	15	Auction.	0 11 6	0 11 6		
	Do. ...		Fuel	...	114	...	6 7 0	6 7 0		
	Ootacamund ...		Do.	...		...	1 14 6	1 14 6		
	Melur ...		Do.	...		...	0 7 0	0 7 0		
			Total ...	...	...	...	9 8 0	9 8 0		
			Grand Total ...	...	...	...	12,546 6 10	12,531 6 10		
			Total Sold from depot.	...	...	...	42,758 6 2	42,713 9 1		
			,, locally ...	...	...	...	57,078 14 6	56,635 0 8		
			,, drift and confiscated.	...	...	...	12,546 6 10	12,531 6 10		
			Grand Total ...	...	...	...	1,12,383 11 6	1,10,880 0 7		

		Abstract of amount realized.	
Add—Outstandings due from previous year as per form No. 66 ... ... Total ...		I (*a*)	
		I (*b*)	
		I (*c*)	
Total ...		I (*d*)	
		I (*e*)	
Deduct—Amount realized during the year		III	
Balance outstanding on 188 as per form No. 66		Total	

* 14 cart loads.

ANNUAL FORM No. 72.

Forest Department, Madras, Northern Circle.

Timber and other produce cut, collected, and removed from the forests by consumers or purchasers, including pasture, during the year 1888-89.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		C. FT.	RS.	RS.	
Ganjam ...	Timber	44,326	469	469	
	Auction sales	...	38	38	
	Total, Timber ...	44,326	507	507	II (*a*).
	Firewood	974,693	10,168	9,893	
	Charcoal	45,170	335	298	1 c. ft. = 10 c. ft. firewood.
	Total, Firewood and Charcoal ...	1,019,863	10,503	10,191	II (*b*).
	Bamboos	1,157,538	2,662	2,659	6 = 1 head-load.
	Total, Bamboos ...	1,157,538	2,662	2,659	II (*c*).
	Sale of tope proceeds ...	...	777	777	
	Total, Minor Produce ...	...	777	777	II (*e*).
	Grand Total ...	...	14,449	14,134	
Vizagapatam.	Timber	36,212	952	952	
	Palmyra tree	1	1	1	
	Miscellaneous	...	18	18	
	Total, Timber ...	36,213	971	971	II (*a*).
	Firewood	176,740	2,213	2,213	
	Charcoal	105,320	658	658	1 c. ft. charcoal = 10 c. ft. firewood.
	Dead-wood, miscellaneous	...	1	1	
	Ash	...	48	48	Head-load 781.
	Total, Firewood and Charcoal ...	282,060	2,920	2,920	II (*b*)
	Bamboos	227,982	2,145	2,145	
	Total, Bamboos ...	227,982	2,145	2,145	II (*c*).
	Grazing dues	...	17	17	
	Fodder grass	...	3	3	
	Total, Grazing and Fodder Grass ...	...	20	20	II (*d*).
		MDS.			
	Tangedu bark	1,599	54	54	
	Palmyra leaves	34	4	4	15 head-loads at 1 head-load = 2¼ mds. Re. 1 by auction.
	Produce of trees on asalminha lands...	...	78	78	
	Canes	8	2	2	
	Rough stone	4,480	6	6	
	Sales of fruits	...	408	408	
	Total, Minor Produce ...	6,121	552	552	II (*e*).
	Grand Total ...	...	6,608	6,608	
Godávari ...		C. FT.			
	Timber { Class I	19,694	3,693	3,693	
	Timber { Class II	77,034	9,629	9,629	
	Timber { Class III	46,277	4,126	4,126	
	Poles	137,118	17,142	17,142	
	Palmyra trees	270	44	44	27 trees.
	Babul trees	160	24	24	16 trees.
	Trees on darkhast, &c., lands ...	5,986	584	584	
	Total, Timber ...	286,539	35,242	35,242	II (*a*). Audited accounts give Rs. 34,755.

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		C. FT.	RS.	RS.	
	Firewood	222,479	4,467	4,467	
	Dead trees on asalminha lands ...	42,916	1,446	1,446	
	Casuarina trees	80	7	7	8 trees.
	Firewood sold to Marine Department.	27,000	100	100	
	Charcoal	18,200	227	227	1 c. ft. = 10 c. ft. firewood.
	Total, Firewood and Charcoal ...	310,675	6,247	6,247	II (*b*). Audited accounts give Rs. 5,999.
		NO.			
	Bamboos	960,300	4,801	4,801	
	Bamboos	10,48,632	11,122	11,122	174,772 head-loads.
	Total, Bamboos ...	2,008,932	15,923	15,923	II (*c*). Audited accounts give Rs. 14,395.
	Grazing by lease	...	1,455	1,455	
		MDS.			
	Grass	145	1	1	65 head-loads.
	Total, Grazing ...	145	1,456	1,456	II (*d*).
		MDS.			
Godávari—*cont.*	Gallnuts	2,360	232	232	
	Soapnuts	1,383	138	138	
	Tamarind	53,349	3,335	3,335	
	Nux vomica	5,498	172	172	
	Cassia tora seed	176	14	14	
	Cashewnuts	10	1	1	
	Tangedu bark	5,244	509	509	
	Other barks	756	169	169	
	Vasantagunda	83	42	42	
	Broom grass	898	6	6	
	Reed mats	...	4	4	275 mats.
	Horns	49	42	42	
	Skins	110	28	28	
		MDS.			
	Musk	2	10	10	
	Wax	23	46	46	
	Honey	28	7	7	
	Iron	37	9	9	
	Stone	72,810	109	109	
	Gravel	20,250	14	14	
	Sale proceeds of usufruct trees on asalminha lands.	...	3,504	3,504	
	Amount less collected on (tangédu bark and recovered afterwards).	...	2	2	
	Total, Minor Produce ...	163,066	8,393	8,393	II (*e*).
	Grand Total ...	...	67,261	67,261	
		C. FT.			
	Timber	130,946	11,398	11,398	1,441 trees at 10 c. ft.
	Palmyra trees	14,410	3,603	3,603	
	Trees on darkhast lands	...	2,842	2,842	
	Other trees	...	6,219	6,219	
	Total, Timber ...	145,356	24,062	24,062	II (*a*).
	Firewood	570,882	8,325	8,325	
Kistna ...	Charcoal	10,500	132	132	1,052 head-loads at 1 c. ft. = 10 c. ft. firewood.
	Total, Firewood and Charcoal ...	581,382	8,457	8,457	II (*b*).
	Bamboos	168,570	1,851	1,851	6 bamboos per head-load.
	Total, Bamboos ...	168,570	1,851	1,851	II (*c*).
	Grazing	...	51,391	49,442	
	Total, Grazing ...	...	51,391	49,442	II (*d*).

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		MDS.	RS.	RS.	
Kistna—*cont.*	Palmyra leaves	5,412	1,457	1,457	
	Stone	78,030	140	140	
	Fruit	...	4,676	4,676	
	Tangedu bark	...	2,204	2,204	
	Other minor produce	...	4,561	4,324	
	Total, Minor Produce ...	83,442	13,038	12,801	II (*e*).
	Grand Total ...	...	98,799	96,613	
		C. FT.			
Nellore ...	Palmyra trees 793	7,930	793	793	10 c. ft. per tree.
	Timber on permits	24,320	1,741	1,741	
	Sale of trees on asalminha and darkhast lands.	39,375	4,791	4,791	15 c. ft. per tree.
	Total, Timber ...	71,625	7,325	7,325	II (*a*).
	Firewood on permit	4,165	104	104	
	Sale of trees on asalminha and darkhast lands.	3,880	248	248	
	Total, Firewood ...	8,045	352	352	II (*b*).
	Grazing rents	...	14,769	14,769	
	Total, Grazing ...	...	14,769	14,769	II (*d*).
	Jungle product rent	...	500	500	
	Lease of mica mine	...	50	50	
	Lease of tangedu bark	...	3,451	3,451	
	Lease of palmyra leaves	...	328	328	
	Rents of topes, tree taxes and cheyroot collections.	...	841	841	
	Soapstone lease	...	60	60	
	Other minor produce	...	470	470	
	Total, Minor Produce ...	...	5,700	5,700	II (*e*).
	Grand Total ...	...	28,146	28,146	
		C. FT.			
Cuddapah ...	Red sanders posts	121	20	20	81 at 1½ c. ft.
	Red sanders wood	7,606	2,578	2,578	225 tons at 1 c. ft. = 75 lbs.
	Miscellaneous timber	168,360	13,353	13,353	+ 856 c. ft.
	Yepi roots	15	5	5	
	Miscellaneous trees	...	259	259	
	Palmyra trees	3,240	438	438	10 c. ft. per tree.
	Trees on darkhast lands	197,325	4,462	4,462	15 c. ft. per tree.
	Total, Timber ...	376,667	21,115	21,115	II (*a*).
	Firewood	692,692	17,272	17,270	
	Enginewood	583,678	19,340	19,340	
	Dead trees on village waste ...	858,175	2,145	2,145	
	Charcoal	130,080	1,650	1,650	
	Total, Firewood and Charcoal ...	2,264,625	40,407	40,405	II (*b*).
		NO.			
	Bamboos	842,376	8,318	8,318	
	Total, Bamboos ...	842,376	8,318	8,318	II (*c*).
		MDS.			
	Grass	27,000	339	293	300 tons.
	Grazing	...	1,725	1,725	15,445 head.
	Total, Grazing and Fodder Grass ...	27,000	2,064	2,018	II (*d*).

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue	Amount actually realized during the year.	Remarks.
		MDS.	RS.	RS.	
Cuddapah—*cont.*	Tangedu bark	29,665	3,107	3,107	
	Thumma bark	6,760	180	180	
	Miscellaneous	838	59	59	
	Bat's dung	2,790	70	70	
	Thatch grass	6,548	46	46	72¾ tons.
	Thorns	...	2	2	Auction.
	Leaves for manure	20,385	162	162	
	Palmyra leaves	1,582	59	59	
	Creepers	225	2	2	
	Guava fruits	...	2	2	
	Cowdung	...	31	31	
	Stones and earth	25,020	47	47	
	Tree tax...	..	193	193	
	Atavoy	...	23,703	23,703	
	Miscellaneous forest produce ...	...	3,215	3,215	
	Total, Minor Produce ...	93,813	30,878	30,878	II (*e*).
	Grand Total ..	...	1,02,782	102,734	
		Cart-loads.	C. FT.		
	Timber 19,472 ...	389,440			
	Yepi trees 518 ..	10,360	39,199	39,199	
	Palmyra trees 87 ...	870			
	Total, Timber ...	400,670	39,199	39,199	II (*a*).
	Firewood	319,820	6,247	6,247	
	Dead trees on darkhast lands ...	25,380	2,478	2,478	
	Charcoal	210,800	2,274	2,274	
	Sale of fuel to Southern Mahratta Railway.	817,600	20,441	20,441	
Kurnool ...	Total, Firewood and Charcoal ...	1,373,600	31,440	31,440	II (*b*).
	Bamboos	11,141	18,387	18,387	
	Total, Bamboos ...	11,141	18,387	18,387	II (*c*).
	Grazing	...	6,232	6,232	
	Total, Grazing ...	...	6,232	6,232	II (*d*).
		MDS.			
	Tangedu bark	111,960	3,732	3,732	
	Other minor produce	...	6,069	6,069	
	Total, Minor Produce ...	111,960	9,801	9,801	II (*e*).
	Grand Total ...	...	1,05,059	1,05,059	
		C. FT.			
	Timber	15,995	1,285	1,285	
	Palmyra trees 650	1,300	1,625	1,625	20 c. ft. per tree.
	Trees on darkhast lands	...	2,602	2,602	
	Total, Timber ...	17,295	5,512	5,512	II (*a*).
	Green firewood	425	21	21	
	Dry firewood	218,152	3,235	3,235	
	Dry firewood	...	489	489	Auction.
Bellary ...	Charcoal...	85,920	1,074	1,074	
	Total, Firewood and Charcoal ...	304,497	4,819	4,819	II (*b*).
	Bamboos	5,274	59	59	6 bamboos per head-load.
	Total, Bamboos ...	5,274	59	59	II (*c*).
		Head-loads.	MDS.		
	Grass 11,408...	25,553	178	178	
	Grazing	...	264	264	1,663 head.
	Total, Grazing and Fodder Grass...	25,553	442	442	II (*d*).

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity	Amount of revenue.	Amount actually realized during the year.	Remarks.
		MDS.	RS.	RS.	
Bellary—*cont.*	Tangedu	109,168	8,266	8,266	
	Soapstone	1,755	3	3	
	Red earth	3,645	3	3	
	Iron ore	8,955	25	25	
	Stone	1,904,490	5,290	5,290	
	Limestone	1,080	3	3	
	Maddi bark	5	1	1	
	Papadi bark	25	1	1	
	Leaves for manure	5,098	101	101	
	Palmyra leaves	1,000	20	20	20,000 leaves at 50 mds. per 1 rupee.
	Rent of fruit trees	...	11,635	11,635	
	Total, Minor Produce ...	2,035,221	25,348	25,348	II (*e*).
	Grand Total ...	...	36,180	36,180	
		C. FT.			
	Timber	21,336	1,425	1,425	
	Palmyra trees 230	2,300	575	575	10 c. ft. each.
	Margosa trees 32	640	125	125	20 c. ft. each.
	Trees on putta lands	...	1,207	1,207	
	Total, Timber ...	24,276	3,332	3,332	II (*a*).
	Firewood	60,497	1,022	1,022	
	Total, Firewood ...	60,497	1,022	1,022	II (*b*).
	Head-loads.	NO.			
	Bamboos 3,346 ...	20,076	338	338	
	Total, Bamboos ...	20,076	338	338	II (*c*).
Anantapur ...	Grazing	...	926	926	6,779 head.
		MDS.			
	Grass	4,392	31	31	1 head-load = 2¼ mds.
	Total, Grazing and Fodder Grass...	4,392	957	957	II (*d*).
	Tangedu	138,900	11,792	11,792	
	Instalments of tangedu contractor's payments.	...	5,198	5,198	
	Leaves for manure	226,494	1,575	1,575	
	Jolli contract	...	2,346	2,346	
	Amroy contract	...	2,103	2,103	
	Palmyra leaves...	150	13	13	20 leaves per md.
	Rough stone	720	1	1	
	Fishing in reserved areas	...	18	18	
	Total, Minor Produce ...	366,264	23,046	23,046	II (*e*).
	Grand Total ...	...	28,695	28,695	
		C. FT.			
	Timber	39,294	3,855	3,855	
	Total, Timber ...	39,294	3,855	3,855	II (*a*).
	Firewood	43,158	2,670	2,670	
	Charcoal	1,130	28	28	1 c. ft. charcoal=10 c. ft. firewood.
Nilgiris ...	Total, Firewood and Charcoal ...	44,288	2,698	2,698	II (*b*).
		NO.			
	Bamboos...	230,543	2,907	2,907	
	Total, Bamboos ...	230,543	2,907	2,907	II (*c*).
	Grazing	...	1,614	1,614	16,627 head.
		MDS.			
	Grass	94,482	509	509	
	Total, Grazing and Fodder Grass...	94,482	2,123	2,123	II (*d*).

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		MDS.	RS.	RS.	
Nílgiris—*cont.*	Canes	1,442	43	43	
	Reeds	736	19	19	
	Wild dates	2,768	40	40	
	Fibres	2,198	30	30	
	Creepers	3,955	54	54	
	Ferns	1,690	11	11	
	Thatch grass	6,552	48	48	
	Vembadam bark	2	1	1	
	Wild coffee	...	50	50	
	Manure	...	58	58	
	Stone and gravel	121,095	85	85	
	Total, Minor Produce ...	140,438	439	439	II (*e*).
	Grand Total ...	...	12,022	12,022	

ABSTRACT.

		C. FT.		
	Timber	1,442,261	1,18,413	1,18,413
	Fuel	6,249,532	1,02,548	1,02,234
		NO.		
	Bamboos	4,672,432	52,590	52,587
		MDS.		
	Grass	151,572	1,061	1,015
	Grazing	...	78,393	76,444
	Tangedu bark (*Cassia auriculata*) ...	396,536	38,313	38,313
	Amroy (fruit tree rents)	...	38,690	38,690
	Jolli (babul pods)	...	2,346	2,346
	Trees on village and darkhast lands ...	...	32,799	32,799
	Stone	2,226,895	5,692	5,692
	Miscellaneous (minor produce) ...	376,894	29,156	28,919
	Total ...	...	5,00,001	* 4,97,452

* Audited accounts give a total of Rs. 4,95,189 due to a sum of Rs. 2,263 unaccounted for in the Godávari District. The difference is under inquiry.

ANNUAL FORM No. 73-A.

Forest Department, Madras, Northern Circle.

Abstract showing the value of timber and other produce at sale depôts, for the year 1888-89.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Ganjam ...	Sál logs	664	4,843	2,425	478	3,278	1,383	...	1,042	
	Do. sleepers	150	269	125	8,186	16,796	11,901	11,776	...	
	Do. scantlings	50	151	75	66	89	26	...	49	
	Do. poles	19	47	10	...	...	...	...	10	
	Do. rafters	174	196	80	263	171	90	10	...	
	Do. slabs	1,982	...	...	6,339	...	127	127	...	
	Piasál logs	10	97	50	6	49	22	...	28	
	Blackwood logs	1	3	2	3	28	9	7	...	
	Miscellaneous logs ...	306	4,085	1,640	231	2,979	621	...	1,019	
	Do. planks, &c.	2,475	93	30	27	14	1	...	29	
	Satinwood	...	...	...	36	357	158	158	...	
	Ebony	3	46	50	3	46	21	...	29	
	Firewood and charcoal ...	Tons 7	...	3	22½	1,575	10	7	...	
	Minor produce	Mds. 807	...	100	Mds. 40	...	5	...	95	
	Total ...	...	9,830	4,590	...	25,382	14,374	9,784	...	
Godávari...	Ironwood	1	15	11	...	...	...	...	11	
	Miscellaneous	3	29	19	...	...	...	...	19	
	Total ...	4	44	30	...	...	...	...	30	
Nellore ...	Casuarina pole	1	2	1	1	2	1	...	...	
	Firewood junglewood ...	331,499	32,232	5,660	799,865	55,440	9,691	4,031	...	
	Do. sulli bundles ...	489	652	92	68,906	91,875	8,613	8,521	...	
	Rattans do. ...	35	...	201	10	...	58	...	143	
	Sarsaparilla	Mds. 5	...	15	...	...	...	...	15	
	Total ...	...	32,886	5,969	...	147,317	18,363	12,394	...	
Cuddapah.	Redwood roots and stumps	Tons 387⅜	18,594	6,585	2,286	109,794	22,860	16,275	...	
	Thamba slabs	...	...	...	50	50	38	38	...	
	Gallnuts	Mds. 5,155	...	2,965	2,771	...	1,099	...	1,866	
	Total ...	...	18,594	9,550	...	1,09,844	23,997	14,447	...	
Kurnool ...	Gallnuts B	Mds. 1,530	...	191	...	...	...	...	191	
	Total ...	1,530	...	191	...	...	...	...	191	
Bellary ...	Fuel	Tons 11	550	60	Tons 34½	3,939	42	12	30	
	Kapila dye	lb. 20	...	9	...	...	...	...	9	
	Total ...	...	550	69	...	3,939	42	...	27	
Anantapur.	Palmyra	1	2	1	...	...	...	...	1	
	Minor produce	Mds. 1,898	...	2,271	174¾	...	380	...	1,891	
	Total ...	...	2	2,272	174¾	...	380	...	1,892	
Nílgiris ...	Acacia planks and rafters.	211	211	53	372	191	253	200	...	
	Drag poles	487	487	61	98	98	12	...	49	
	Firewood and charcoal ...	Tons 231	11,550	1,566	* 294	22,296	2,268	702	...	* 216 lots, 78 bags.
	Minor produce	...	...	...	22	...	14	14	...	
	Total ...	...	12,248	1,680	...	...	2,547	867	...	
	Grand Total ...	...	...	24,351	...	...	59,703	35,352	...	

ANNUAL FORM No. 73-B.

Forest Department, Madras, Northern Circle.

Abstract showing the value of Live Stock, Stores, Tools and Plant, for the year 1888-89.

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Direction ...	Surveying and other instruments	15	184	16	193	...	...	
	Furniture	75	945	78	980	...	...	
	Letter-weighing scales with weights.	2	108	2	108	...	...	
	Miscellaneous	3	39	4	52	...	...	
	Total ...	95	1,276	100	1,333	57	...	
Ganjam ...	Bungalow, head-quarters	1	1,669	1	1,500	...	...	
	Do. inspection ...	7	2,420	6	2,205	...	...	Redistributed.
	Range houses	...	...	3	2,265	...	...	
	Inspection huts ...	8	410	13	783	...	...	
	Guard's sheds	3	345	2	210	...	...	
	Tannahdar's sheds ...	...	...	1	20	...	...	
	Furniture	36	303	35	263	...	...	
	Tools	219	316	192	240	...	...	
	Surveying and other instruments	28	243	26	436	...	...	
	Miscellaneous	1	8	2	20	...	...	
	Total ...	303	5,714	281	7,942	2,228	...	
Vizagapatam.	Sheds	2	45	...	...	...	...	
	Tools	5	2	16	...	...	...	
	Surveying and other instruments	17	162	10	23	...	...	
	Furniture	25	228	20	97	...	...	
	Miscellaneous ...	...	...	1	12	...	...	
	Total ...	49	437	47	132	...	305	
Godávari ...	Inspection house ...	1	327	1	327	...	...	
	Sheds, office	...	...	1	27	...	...	
	Do. tannah	11	144	7	102	...	...	
	Do. guards	...	...	6	15	...	...	
	Surveying and other instruments	22	169	22	169	...	...	
	Tools	313	257	441	423	...	...	
	Furniture	55	496	55	496	...	...	
	Miscellaneous	62	83	71	393	...	...	
	Boat	1	1,500	1	1,500	...	...	
	Scales with tripods ...	3	413	3	413	...	...	
	Elephants	...	...	4	6,000	...	...	
	Total ...	468	3,389	609	9,865	6,476	...	
Kistna ...	Inspection bungalow ...	...	...	1	792	...	...	
	Surveying and other instruments	24	575	29	575	...	...	
	Tools	270	174	266	164	...	...	
	Furniture	20	215	34	298	...	...	
	Boats (Dingy)	2	280	3	2,280	...	...	
	Miscellaneous	10	33	...	...	...	...	
	Letter-weighing scales...	1	10	1	2	..	...	
	Total ...	327	1,287	334	4,111	2,824	...	
Nellore ...	Inspection bungalow ...	...	...	1	553	...	...	
	Tannah sheds	...	...	7	...	...	...	
	Cash safes	4	210	4	210	...	...	
	Scales and weights, sets.	7	744	7	744	...	...	
	Furniture	96	565	96	574	...	...	
	Boxes	19	30	19	30	...	...	
	Tools	457	360	413	342	...	...	

Abstract showing the value of Live Stock, Stores, Tools and Plant, for the year 1888-89—*cont.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Nellore—*cont.*	Surveying and other instruments	46	275	46	275	...	...	
	Boats	9	4,018	11	4,478	...	...	
	Tramway	3	15,574	8½	32,644	...	...	
	Miscellaneous	...	...	1	12	...	...	
	Total ...	641	21,776	613½	39,862	18,086	...	
Cuddapah ...	Inspection bungalow ...	5	16,711	5	10,400	...	...	
	Ranger's houses ...	5	2,454	7	3,368	...	...	
	Office house	1	200	1	190	...	...	
	Sheds, various	75	1,414	83	1,495	...	...	
	Surveying and other instruments	37	346	28	328	...	...	
	Tools	518	588	532	638	...	...	
	Furniture	69	645	68	526	...	...	
	Scales with weights ...	1	155	4	226	...	...	
	Total ...	711	22,513	728	17,171	...	5,342	
Kurnool ...	Bungalow, head-quarters	1	7,090	1	11,000	...	...	
	Do. inspection ...	19	7,447	15	4,919	...	...	
	Ranger's houses ...	4	1,476	3	490	...	...	
	Sheds	19	1,889	20	498	...	...	
	Furniture	30	162	34	190	...	...	
	Tools	376	724	612	1,065	...	...	
	Surveying and other instruments.	28	341	30	281	...	...	
	Cash chest	1	8	1	8	...	...	
	Scales with weights ...	1	50	1	20	...	...	
	Total ...	479	19,187	717	18,471	...	716	
Bellary ...	Ranger's house	1	460	...	...	...	...	
	Inspection shed ...	...	...	1	634	...	...	
	Surveying and other instruments.	24	188	23	142	...	...	
	Furniture	17	219	33	354	...	...	
	Tools	186	211	229	210	...	...	
	Scales with weights up to 500 lbs.	1	272	1	272	...	...	
	Total ...	229	1,350	287	1,612	262	...	
Anantapur ...	Head-quarters bungalow.	1	6,469	1	6,500	...	...	
	Inspection bungalow ...	1	500	...	...	...	...	Fallen down, is being rebuilt.
	Sheds	15	173	16	196	..	...	
	Surveying and other instruments	42	185	42	186	...	...	
	Furniture	35	357	47	397	...	...	
	Cash safe with padlock.	1	12	6	52	...	...	
	Tools	147	281	145	281	...	...	
	Scales with weights ...	...	...	5	375	...	...	
	Total ...	242	7,977	262	7,987	10	...	
Nilgiris ...	Inspection house ...	...	...	1	1,000	...	...	
	Range house	...	...	3	600	...	...	
	Sheds, various	36	3,662	43	2,550	...	...	
	Surveying and other instruments	35	341	35	278	...	...	
	Charcoal kiln	1	582	1	437	...	...	
	Furniture	42	534	45	483	...	...	
	Tools	756	1,718	767	1,327	...	...	
	Elephants	2	3,000	2	1,800	...	...	
	Do. calf	2	700	2	700	...	...	
	Miscellaneous.							
	Chains of elephants ...	8	240	8	180	...	...	
	Total ...	882	10,777	907	9,355	...	1,422	
	Grand Total ...	4,426	95,683	4,885½	1,17,841	22,158	...	

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of Elephants in Northern Circle during the year 1888-89.

PART I.

Elephants in possession of the Reporting Officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.	Rs. A. P.	Remarks.
Godávari.	Bada moti guz	July 1888, purchase ...	Average per month.	52 10 6	
	Pown guz	Do. do. ...	Do. do. ...	52 10 6	
	Captain Gunning ...	Do. do. ...	Do. do. ...	52 10 6	
	Jung Bahadúr	Do. do. ...	Do. do. ...	52 10 6	Total expenditure Rs. 1,685 for 8 months.
Nílgiris ...	Lutchmi	January 1882 ...	Do. do. ...	54 3 2	
	Chinna Lutchmi ...	Do. ...	Do. do. ...	54 3 2	
	Mabu Baksh	January 1885 born ...	Do. do. ...	27 1 7	
	Akbar Baksh	February 1888 born ...	Do. do. ...	.....	Total expenditure Rs. 1,626 for 12 months.

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	Rs. A. P.	Remarks.
Godávari.	Bada moti guz	Purchased in July 1888.	Average per month.	52 10 6	
	Pown guz	Do. do.	Do. do. ...	52 10 6	
	Captain Gunning ...	Do. do.	Do. do. ...	52 10 6	
	Jung Bahadúr	Do. do.	Do. do. ...	52 10 6	

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	How disposed of.
None.				

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 3rd September 1889, Forest No. 441 :—

W. S. WHITESIDE, Esq., C.S.

Read—the following letter from A. W. PEET, Esq., Acting Conservator of Forests, Southern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 5th August 1889, No. 1340 :—

I have the honor to forward herewith the annual report (in print) on the Forest Administration of this Circle during 1888-89.

2. With reference to their reminders, I believe the Board reckon the 15th July as the date on which the report is due in their office (paragraph 235 of the Departmental Code); but that date was fixed at a time when the report went in in *manuscript*. Now that it is required in print, it is, I submit, necessary to allow at least another month to pass the report and its bulky appendices through the press, and I feel sure that a reference to the Board's own records and the Superintendent, Government Press, will justify the claim. I may add that the comparatively early submission of the present report is due to work having been done at very high pressure.

Read—the following letter from J. S. GAMBLE, Esq., Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 6th July 1889, No. 1301 :—

I have the honor to forward the annual Forest Administration Report for the Northern Circle for the year 1888-89.

Resolution—dated 3rd September 1889, Forest No. 441:

The Board resolve to submit to Government their annual review of the work of the Forest Department during 1888-89, as given in the reports of the two Conservators.

2. The Board are glad to be able to report that the Conservators were able this year to submit their reports early in August in print.

3. The establishment for the Presidency consisted of the following officers :—

	Southern Circle.	Northern Circle.
Conservators	1	1
Deputy Conservators	7	1
Assistant Conservators	6	5
Sub-Assistant do.	7	6
Rangers	33	22
Foresters	77	48
Guards	96	343

4. The gross receipts of the department amounted to Rs. 15,15,006, and the expenditure to Rs. 12,16,674, leaving a balance of Rs. 2,98,332.

The Southern Circle during almost the whole year was in charge of Mr. Cherry and the Northern Circle in charge of Mr. Peet. The latter officer was, however, relieved by Mr. Gamble on the 7th January 1889, and that officer was in charge up to the close of the year. Mr. Gamble very clearly shows how undermanned is his staff in the Northern Circle, and the Southern Circle is not much better. The Board do not see necessity to make any further remark on the matter as the facts are well known to the Government. They only say that in their opinion a strong recruitment of the establishment in all grades is not only most advisable from an administrative point of view, but would also prove in a few years financially successful.

5. The following statement shows the changes in areas made in the different classes of forests under the control of the Forest Department. The Conservator of Forests, Northern Circle, has not given complete information as in former years :—

—	Area on 31st March 1888.	Added.	Excluded.	Area on 31st March 1889.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
A. Reserved Forest under Act V of 1882	3,027	451½	47½	3,431
Reserved Forests under other orders	..	23	..	23
B. Forest reserved under previous rules	1,012½	..	818½	194
C. Leased forests	198½	..	63	135½
D. Reserved lands	11,520¼	720¼	518¼	11,722
E. Other Forests, Southern Circle	1,250	368	166	1,452
Do. Northern „ Unreserved lands	..	12,474	..	12,474
Total	17,008¼	14,036¾	1,613½	29,431½

In taking the total, the area given under Other Forests by Mr. Gamble has not been included, as that area is not taken into consideration in the Southern Circle, and both returns should be based on similar data. Mr. Gamble has, for the first time, entered an estimate of all the areas of unreserved land in his circle, excepting those lands appropriated as village site, channel and road porambokes, &c., as forests. But though under forest control, the Board do not consider that the area can be properly considered as forests and prefer the system followed in the Southern Circle under which only that area which is recorded for reservation and over which, therefore, the Forest Department exercises some real control is included. The Board do not understand how Mr. Gamble has treated the area formerly entered in statement 59-B. He reports that all the areas formerly described in it now find a place in either form 59-A or 59-C. But the Board are unable to find several of the blocks mentioned in the form 59-B in last year's report in either of the above two statements. Several blocks were, for instance, given in Rékapalle taluk, Godávari district, in form 59-B, 1887-88; but in neither 59-A nor 59-C are any blocks entered for this taluk in the current year's report. So also as regards Proddatur taluk in Cuddapah. The Conservator is requested to report what has been done as regards the areas which have disappeared altogether from the statements.

6. The following statement shows the areas under each class of forest in the two circles at the close of the year :—

—	Reserved forests.	Reserved lands.	Leased and other forests.
	SQ. MLS.	SQ. MLS.	SQ. MLS.
Northern Circle	654	6,424	135½
Southern do.	2,994	5,298	1,452

Taking the forests by districts, the following shows the area of reserved forests (including leased forests) and reserved lands in each district.

Northern Circle.	Reserved forests including leased forests.	Reserved lands.	Southern Circle.	Reserved forests excluding forests reserved under previous rules	Reserved Lands.
	SQ. MLS.	SQ. MLS.		SQ. MLS.	SQ. MLS.
Ganjam	18	527	Chingleput	92	61
Vizagapatam	37	..	North Arcot	369	542
Godávari	11	704	South Arcot	94	189
Kistna	19	641	Salem	598	570
Kurnool	...	1,715½	Trichinopoly	136	100
Nellore	6	493	Tanjore	8	17
Cuddapah	350	1,672½	Coimbatore	685	1,851
Bellary	62½	314	Madura	327	236
Anantapur	13½	261	Tinnevelly	287	303
Nilgiris	272½	96	Malabar	157	451
			South Canara	47	978
Total	789½	6,424	Total	2,800	5,298

7. In the Northern Circle only 43½ square miles and in the Southern Circle 398 square miles of forest were added to the area of reserved forest during the year, but besides these areas the settlement of 3,199 square miles in the Northern Circle and of 1,189 in the Southern Circle was completed during the year; but the notifications under section 16 of the Act have not yet been published. The Government are aware of the reason why there is such delay between the final report of the settlement of a forest and the issue of the notification under the Act constituting it a forest reserve. The Forest Settlement-officers, though in almost all cases they have examined into the claims put forward at settlement with care and have done almost all their duties as Settlement-officers satisfactorily, have submitted their draft final notifications in a state which prevents their immediate publication. The boundaries are generally not sufficiently described, and there are often details as regards the forest on which more information is required by the Board before the papers can be submitted to Government. This necessitates the return of the papers to the Settlement-officers and consequent delay. Since, however, the Board's orders on the subject have been known, the reports have been submitted in a better and more complete form, and the Board hope that next year a great advance in the amount of settlement work actually completed will be reported. Since the end of March, the Board have examined one hundred and sixty-four settlement reports, and twenty-four notifications under section 16 have been issued, out of thirty-seven submitted by the Board to Government.

8. The following statement shows the state of progress at the close of the year under report:—

		Total under settlement.		Total finally notified.		Total settled and reported but not notified.		Total settled but not reported.		Settlement proceeding.	
			SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.		SQ. MLS.
Northern Circle.	Ganjam	35	529½	3	18	9	144½	8	173½	15	193½
	Vizagapatam	1	14	1	14	..	..	..	..	..	..
	Godávari	47	715½	2	11	22	227	10	86	13	391½
	Kistna	54	660	10	19	26	198¾	6	78¾	13	364
	Nellore	120	477	7	5¾	37	96½	29	99	47	275¾
	Cuddapah	114	1,886½	21	350	42	950½	17	144½	34	436½
	Kurnool	14	1,715	..	..	7	1,410	2	20	5	285
	Bellary	51	314	..	..	14	29¼	2	18½	35	266½
	Anantapur	43	275	5	13¾	14	108	4	12¼	20	141
	Nilgiris	172	295½	115	199½	52	28½	..	..	5	67½
	Total	651	6,882	164	631	228	3,198¾	77	631¾	187	2,420½
Southern Circle.	Chingleput	47	131	17	92	18	25	12	14	..	..
	North Arcot	85	733	38	369	45	314	2	50	..	..
	South Arcot	85	283	22	94	48	140	..	..	15	49
	Salem	106	966	66	598	22	156	18	212	..	..
	Trichinopoly	74	197	31	136	12	42	31	19	..	..
	Tanjore	24	19	16	8	4	11	4	..	..	..
	Coimbatore	20	1,342	15	685	1	..	..	..	4	657
	Madura	94	500	73	327	16	152	4	21	1	..
	Tinnevelly	89	589	5	287	34	302	..	..	..	..
	Malabar	34	560	12	157	..	..	7	143	15	260
	South Canara	22	144	13	47	5	47	3	47	1	3
	Total	630	5,464	308	2,800	205	1,189	81	506	36	969

9. The following is the statement in the form required by the Government of India :—

STATEMENT showing the progress of forest settlements for 1888-89, prescribed in paragraph 4 of Government of India letter in G.O., dated 22nd July 1881, No. 621, Revenue.

Circle.	Forest areas not as yet dealt with under the provisions of Chapter II, Act V, at the beginning of the year.	Areas gazetted under section 4 of Act V not yet settled at the beginning of the year.	Areas gazetted under section 4 of Act V during the year.	Areas settled and gazetted under section 16 of Act V during the year.	Areas alienated in the course of settlement during the year.	Balance of areas gazetted under section 4 of Act V not yet settled at the end of the year.	Balance of forest areas not as yet dealt with under the provisions of Chapter II, Act V, at the end of the year.
1	2	3	4	5	6	7	8
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		SQ. MLS.	SQ. MLS.
Northern Circle.	7,334¼	6,158	136½	43½		6,251	6,582½
Southern ,,	6,647	2,323	739	398		2,664	6,944
Total	13,981¼	8,481	875½	441½	...	8,915	13,526½

N.B.—In column 2, the area entered is the area of reserved lands and other forests not yet dealt with under the Forest Act. The foot-note to the form sent by the Government of India was not understood and apparently was incorrect. This form has been prepared thus :—

Column 7 = columns (3 + 4) — column 5.
Column 8 = column 2 — decrease + increase, due to afforestation of unreserved lands, to rectification of areas, &c.

No entries have been made in column 6 as the areas alienated are very small and exact figures are not known.

10. The first of the above statements shows that, as far as actual settlement work in the field is concerned, the progress during the year was good. It is important that the final papers concerning the settlement of all the blocks should be complete and accurate in every respect, and the delay that is caused by their careful examination and correction will be well compensated by absence of trouble and difficulty in connection with boundaries and management in the future. The Board do not give the percentages of reserved forests to district areas, as the forest settlement is not yet in a sufficiently advanced state to show what the ultimate proportions will be in each district. The wishes of the Government upon the subject of reservation are well known, and Collectors are now considering further proposals to make the area under close reservation complete. In the Northern Circle, the completion of the settlement work in Kurnool has been retarded by the very confused way in which the adjudication on the various claims put forward was recorded. The settlement was carefully carried out; but the registers were prepared in a manner which made scrutiny in the Board's office difficult. The areas were very large and the claims numerous. In Nellore, the settlement work has been difficult; it has, however, so far as the papers before the Board show, been well carried out. In Anantapur, the want of a special Settlement-officer has been much felt. In Vizagapatam district, it is hoped that some arrangement for improving the control of the forests may be arrived at, when the Conservator visits the district in the next cold weather. In the Southern Circle, the Conservator reports that the following further areas are likely to be proposed for reservation :—

	SQ. MLS.		SQ. MLS.
Chingleput	36	Tanjore	39
South Arcot	463	Coimbatore	299
Salem	622	Tinnevelly	4
Trichinopoly	104	Malabar	35

The Board have proposals from Salem which they hope to dispose of shortly. The Southern Circle report gives much more complete information on the subject of the areas under forest control of different kinds than is contained in the report of the Northern Circle. The Board desire that, in next year, the appendices which supply

the information regarding the various kinds of forests under the management of the department in the two circles shall be drawn up in similar forms. The Conservators should in consultation decide upon the best method of showing the necessary information. In this year the Northern Circle appendices are incomplete. The areas of all the above blocks must be taken as only approximate, and until they are completely surveyed no accurate statement can be given of the areas under forest control in either circle.

11. As regards village forests, Mr. Gamble gives information as to areas set apart for the purpose on the Nilgiris; in other districts, nothing has yet been done, and with the present strength of establishments nothing can be done in most districts until all the settlement work is completed.

12. *Demarcation.*—In the Northern Circle the Conservator gives a very full report on the amount and quality of work done in connection with demarcation. The demarcation of some 1,827¾ miles appears to have been done during the year, at a cost varying from Rs. 7-8-0 a mile in Nellore to Rs. 28 in Kistna. The work is reported to have been well done and, except in Kistna (Rs. 28) and Godávari (Rs. 27-12-0), the cost does not appear to have been too high. The total spent on demarcation was Rs. 23,058.

The Conservator has reported that the demarcation in Anantapur with which fault was found last year proves on inspection to have been well done, and not to have been really costly. In the Southern Circle 1,572 miles are reported to have been done at an average cost of Rs. 10-4-10 a mile. The total spent on demarcation during the year under report was Rs. 16,191.

The Board would deprecate any inferences being drawn from the large and comparatively heavy cost of the work done in the Northern Circle. The Southern Circle Conservator admits that the Superintendent of the Survey Party working in his circle has expressed his dissatisfaction with the demarcation work done there, and bad demarcation is one of the reasons given by him for the slow progress made with the survey. If the demarcation in the Northern Circle has been done thoroughly well, the Board do not think the cost extravagant. Whether it has been done well or not, time will show. Demarcation is obviously work the cost of which can be made as heavy or as light as is required. A few feet taken off the breadth of the line, careless supervision as to the quantity of brushwood left, a reduction in the size of the cairns put up, all these and many other factors may tend to reduce cost, and at the same time to make the work done ineffective and transitory in its result. With reference to the remark of the Northern Circle Conservator that in many forests the Board have recently directed alterations of boundary, which necessitated an increased cost in demarcation, the Board beg to state that they have directed an alteration of boundaries in those cases where, owing to the situation of enclosures in the forests, a slight deviation of the boundary line will throw the enclosures outside instead of inside the forest. It is important that the forest areas should, as far as possible, be free from all enclosures over which private rights exist.

The results of the year appear satisfactory. About 3,399 miles were added to the length of demarcated boundary, making the total length demarcated about 18,089 miles.

13. *Survey and working plans.*—In the Northern Circle, in Bellary, 14 blocks of forest, in area 14·6 square miles, were surveyed on the scale of 4 inches to 1 mile. The work was done by the Revenue Survey Department. In Ganjam, Godávari and Cuddapah some work was attempted by the local staff, but otherwise no survey work was carried out in the Northern Circle. Twelve working plans are in operation in the circle, in the districts of Nellore, Cuddapah, Bellary and Nilgiris. The working of the Nellore plantations on Mr. Vincent's plans appears to be profitable, the operations bringing in 5½ per cent. on an estimated capital expenditure of Rs. 2,96,000. In the Nilgiri forests, the working plans have not been rigidly adhered to. The cost of

surveys and the preparation of working plans was Rs. 1,613. This, however, does not apparently include the cost of the work done in Bellary by the Revenue Survey Party.

In the Southern Circle the Government of India Survey Party was at work. The outturn appears to have been 169 square miles of reserved forests, and the triangulation and traversing, in advance of survey, of 1,000 and 240 square miles, respectively. The Deputy Superintendent in charge of the Party has, as above remarked, found the demarcation in many cases unsatisfactory. The work has been done in Tinnevelly, Madura and Salem and the cost was Rs. 39,337. The work done departmentally cost Rs. 5,861, and consisted of the survey of 170 square miles of forest in Salem, Trichinopoly and South Canara. Some work appears also to have been done in Tanjore. The Board doubt whether there is much good gained from these rough departmental surveys except in cases where the forests are small and the topographical features present no difficulty. The Government in last year's review directed these surveys to be discontinued unless they could be made more accurate. What arrangements have been made to make them so are not reported. The Conservator should, when he next visits South Canara, report specially on the value of the survey work done there. The preparation of working plans has not advanced more in the Southern Circle than in the Northern. The inability of the department in its present condition to devote much attention to this work has been constantly brought to notice. In most cases the working plans in operation could not be strictly followed owing to the destruction of trees by storms and defects in the original plans. In one block in South Coimbatore the felling results are reported to have been very satisfactory.

14. *Fire protection.*—The Conservator of Forests, Northern Circle, reports that the return in regard to fire protection has been very carefully scrutinized. Out of 1,667 square miles attempted, 14 per cent. was burnt. The cost was about Rs. 9 a square mile. In the Southern Circle 1,502 square miles were protected by fire tracings at the cost of Rs. 13 a square mile, and 97 per cent. was saved.

In Ganjam the dry season caused bad fires; in Kistna protection was successful; in Cuddapah the fires are reported to be the deliberate work of incendiaries, who manage so to prepare their work that before the existence of the fire is detected they are far from the scene of the offence. In Kurnool the jungle tribes long accustomed to annually burn large portion of the hills are not yet brought under control. In the Bellary leased forests valuable forest was burnt and there is reason to suppose that the fire lines were insufficient. On the north side of the Nilgiris, valuable tracts of jungle were destroyed, and in the Wynaad the fires by incendiarism were deplorable. The report of the Conservator of Forests, Southern Circle, shows that strenuous efforts were made there to save the jungles. The Conservator of Forests, Northern Circle, lays down the insufficient protection against fires first, to the weakness of district staff, secondly, to the heavy settlement and demarcation work which fully occupied the time of almost all the officers of the department, thirdly, to incendiarism, fourthly, to the length of the fire season. All these reasons no doubt have force. The insufficiency of the district staff is acknowledged, and no doubt in some places, probably in Cuddapah for instance; the increasing control exercised by the Forest officers increases the antipathy of the herdsmen and others who suffer, and fires are the result. Fire lines are even when thoroughly laid down not always a sufficient protection in heavy jungle, in the dry districts; and the greater the efficiency of the fire protection in the past, the greater the difficulty of successful protection in the future until the growth of high jungle has destroyed the long grass which is the first result of protection. For all these above reasons the Board are not inclined to make the efficiency of fire protection at present an important test of the efficiency of the department. The Conservator of Forests, Northern Circle, fully explains how it is that the Bombay Forest Report shows such good results, and if the returns in this Presidency were drawn up on the same system, equally good results could be shown. The following statement shows by districts the areas attempted and the results reported:—

	Districts.	Area attempted.	Area burnt.	Expenditure during the dry season of 1888-89.	Cost up to end of 1888-89.
		SQ. MLS.	SQ. MLS.	RS.	RS.
Northern Circle	Ganjam	489·4	32·9	671	3,353
	Vizagapatam	14.	·04	..	..
	Godâvari	144·1	·25	298	396
	Kistna	68·5	·1	800	3,906
	Nellore	117 2	10·1	803	1,444
	Cuddapah	320·9	17·7	4,010	25,749
	Kurnool	34·5	11·4	840	3,595
	Bellary	103·0	17·5	2,336	13,044
	Anantapur	72·5	1·8	1,476	6,746
	Nilgiris	302 5	112·3	2,982	13,681
	Total.	1,666·6	228·64	14,216	71,914
Southern Circle	Chingleput	36·4	·01	600	2,766
	North Arcot	604·7	3·9	2,261	15,712
	South Arcot	118·4	·8	652	5,075
	Salem	48·4	..	2,182	14,819
	Trichinopoly	77·3	·1	214	1,863
	Tanjore	..	..	..	..
	Coimbatore	76·6	·5	1,630	8,429
	Madura	303·8	1·1	4,765	23,433
	Tinnevelly	116 5	·8	3,916	11,687
	Malabar	95·7	44·4	3,097	14,941
	South Canara	24·2	·01	736	2,355
	Total ..	1,502·0	51·62	20,053	1,01,080

15. *Grazing.*—The following table shows the receipts from grazing in each district for a period of three years :—

	Districts.	1886-87..	1887-88.	1888-89.
Southern Circle.	Chingleput	641	1,244	2,695
	North Arcot	1,423	30	3,318
	South Arcot	1,306	2,226	1,930
	Salem	24	..	5,257
	Trichinopoly	2,328	5,140	5,893
	Tanjore	414	693	751
	Coimbatore	27,707	34,633	29,677
	Madura	1,392	1,524	2,462
	Tinnevelly	313	609	312
	Malabar	117	27	101
	Canara	..	12	..
	Total ..	35,665	46,038	52,396
Northern Circle.	Ganjam	5	..	..
	Vizagapatam	..	..	20
	Godâvari	971	947	1,456
	Kistna	67,927	38,711	49,442
	Nellore	4,683	12,784	14,769
	Cuddapah	174	1,227	2,018
	Kurnool	1,109	4,888	6,232
	Bellary	337	403	442
	Anantapur	6	16	957
	Nilgiris	326	797	2,123
	Total ..	45,538	59,773	77,459

On the whole, the reports show that the question of grazing received careful attention during the year. The Board think that there may be some reason to fear that from anxiety to show a good balance sheet district officers may be tempted to extend the privilege of grazing with too free a hand. They doubt whether it is advisable (as the Conservator says is proposed in Salem) to reduce rates and place no restriction on the numbers of cattle sent into reserved forests, excluding only those forests which are under special fire protection. In Salem, this would mean apparently the permission of almost free grazing over all the forest areas except 48·4 square miles. As the Conservator of Northern Circle remarks, the forests of this Presidency excepting those perhaps on the West Coast are all suffering from excessive grazing and bad.

treatment and in almost all cases rest is their chief requirement. It is to be regretted that the Muchukota forest in Anantapur which contains valuable timber and seedlings should have been thrown open to grazing.

16. *Police.*—The prosecution in connection with forest offences and their disposal are compared in the following statement with the results of the previous year :—

		Cases pending.	New cases in the year.	Convictions.		Acquittals.	
				Cases.	Persons.	Cases.	Persons.
1		2	3	4	5	6	7
Northern Circle..	1888-89	125	1,733	834	1,964	316	906
	1887-88	103	1,455	888	2,122	339	1,055
Southern Circle..	1887-88	173	2,201	860	1,827	334	1,235
	1888-89	156	1,644	791	1,646	280	925

		Compounded.		Withdrawn.		Cases pending at the close of the year.
		Cases.	Persons.	Cases.	Persons.	
		8	9	10	11	12
Northern Circle..	1888-89	427	985	*102		179
	1887-88	205	652	1	3	125
Southern Circle..	1888-89	897	2,269	76	226	207
	1887-88	581	1,575	25	159	173

*Not entered in the Conservator's return.

The percentage of convictions to total cases disposed of was in the Northern Circle 79·9 and in the Southern Circle (excluding those cases reported to have been withdrawn) 84. The offences were almost all those of unauthorized felling and theft of wood. But in Salem and Cuddapah the percentage of offences against the grazing rules to total offences was considerable. In the Northern Circle 427 cases were compounded concerning 985 persons. The amount for which offences were compounded was Rs. 1,818. The number given in the body of the report, viz., 529, is not the number of cases compounded, but the number of cases for composition which occurred during the year. In the Southern Circle 897 cases were disposed of concerning 2,269 persons and Rs. 4,915 were received. The reports seem to show that the work of the department in this matter was fairly satisfactory. Mr. Gamble has reported that in his circle the procedure as regards compounding is not uniform. In Ganjam and the Northern districts, generally, the Forest-officer, on papers laid before him by the Range-officer, decides the amount to be received. In Kurnool, all cases are reported first to a Magistrate having jurisdiction and he, if he thinks the case one which should be compounded, informs the District Forest-officer, who arranges for compounding the offence. On the Nilgiris, it is reported that weak cases are usually compounded. The Conservators should bear in mind that the power of compounding is not intended and should not be used in cases where the evidence is not strong enough to secure a conviction. It is intended to meet those cases where the offence is clear but of such a nature that it is not considered advisable to place the defendant on his trial. The place of the offence may be so far from a Magistrate's Court that it may be unduly hard to compel appearance before a Criminal Court or the offence may be of such a character that a warning is sufficient.

17. *Natural reproduction.*—The reports of the Conservators on the subject are interesting. Mr. Gamble, who, from a period of absence, is better able now to judge on the results of the conservancy in the dry districts of Cuddapah and Bellary reports that natural production in those districts is doing a great deal already. He has been

much struck by the progress made. The Conservator of the Southern Circle draws attention to the rapid reproduction taking place in most of the districts and to the curious result of felling in the Sholakarai block in Coimbatore where the seedlings largely consist of teak and rosewood, valuable trees, the latter of which hardly occurs in the forest in a full grown condition. The experiments of coppicing casuarina should continue to be made. Attention is drawn to Mr. Gamble's note to the effect that, to be successful, side shade is required and that therefore plantations should not be coppiced throughout at one time, but the trees taken here and there. Mr. Gamble has not reported whether the seedlings (*Hardwickia binata*) in the Anantapur forests are making any better growth than was formerly the case. From the fact that grazing was allowed in the forests there to a large extent lately, the Board fear that none or little progress can have been made.

18. *Artificial reproduction.*—The amount spent on plantation of topes and cultural operations with the area is given below :—

		Area.	Cost during the year.			Area.	Cost during the year.
		Acs.	Rs.			Acs.	Rs.
Southern Circle ..	Plantation	11,792	25,532	Northern Circle		7,144½	14,208
	Topes	18,898	5,189			6,865	2,215
	Other areas	3,846	2,093			774	1,511
	Total ..	34,536	32,814		Total ..	14,783½	17,934

The total amount expended was Rs. 50,748 compared with an expenditure of Rs. 49,439 in the previous year. The total area under plantation, topes and other areas was 49,319½ acres compared with 55,917 acres in the previous year. The reduction in area is accounted for by the reduction in the area of topes in the Northern Circle, in Cuddapah, due to the exclusion of areas containing scattered trees formerly classified as topes. Mr. Gamble gives a very careful account of the operations in his circle during the year and considers that upon the whole the work was satisfactory. The mahogany plantations at the foot of the Nilgiris and the scattered mahogany trees in Nellore are reported to have done well. Mr. Gamble recommends that the replanting in the Nellore casuarina plantation should in part, at all events, be with broad-leaved trees instead of casuarinas. By this means he hopes to avoid the ill results which have attended the replanting of casuarinas. The experiment should be carefully watched. It is to be regretted that the district authorities in Kistna did not carry out the works recommended on the Bezváda hill. The works of improvement in the shape of the clearing of creepers and under-growth from the forests is reported to have been badly done in Bellary and well done on the Nilgiris. This result is not to be wondered at, the Nilgiris being under the immediate supervision of the Conservator, while in Bellary the supervising staff was very weak throughout the year. In the South Circle the operations for artificial reproductions were in many cases not successful. In South Arcot the replanting of casuarina was carelessly done, in North Arcot the plants from seeds sown some five or six years ago are reported to be stunted. In Malabar the teak continued to make good growth, but mahogany was not so successful. The climate may be too wet there to suit the plants.

19. *Exotics.*—The reports on the progress of the date palm cultivation continue to be good. The plant will thrive almost everywhere apparently if looked after. As yet, however, the only plants that have apparently borne fruit are four in Tanjore. The experiments with the Eucalyptus seed sent out from the Settlement Department (Board's Proceedings, dated 24th September 1888, No. 524) are reported to have resulted in failure in almost all cases. In the Southern Circle, Palmanér seems to be the only place on the plains where this tree will grow, and there four or five of the species seem to do well. The *Eucalyptus globulus* is 40 feet high. The Conservator, Northern Circle, deprecates the Forest Department undertaking experiments of the kind. But as long as too much time and attention is not given to this kind of work,

the Board see no harm in experiments being made, and one good result will compensate for many failures. They agree with Mr. Gamble, however, in thinking that the real aims of the Forest Department must not be lost sight of, and they look to the Conservator to see that too much time and attention are not given to operations which do not really form part of the Forest-officers' duties proper. In any case, the distribution of seed to Forest-officers should be always done through the Conservators. The Conservator reports that *Bucklandia populnea* grows well on the Nílgiris and *Acrocarpus fraxinifolius* in Anantapur and Cuddapah. In the Southern Circle the experiments with various kinds of bamboo in the Wynaad were successful. The Mahogany experiments were much interfered with by the borer and moth. Mr. Gamble has reported that the borer has disappeared in the plantations on the Nílgiris, it is said, through the application of kerosine oil and soap. The rubber plants on the West Coast flourish, but as regards the production of rubber the experiment has not yet been successful. It seems probable that the trees must reach a great age before they are fit to be tapped.

20. *Buildings and Roads.*—The amounts spent were as follows :—

	Northern Circle.		Southern Circle.	
	Actual expenditure.	Revised estimate.	Actual expenditure.	Revised estimate.
	Rs.	Rs.	Rs.	Rs.
Roads	9,234	12,000	16,345	15,080
Buildings	14,457	15,050	18,699	18,897
Other works	302	400	804	978
Total ..	23,993	27,450	35,848	34,955

The Conservator, Northern Circle, reports that Rs. 774 and Rs. 2,490 were spent; on $3\frac{1}{2}$ and 29 miles of road in Ganjam and Godávari respectively; the appendix however, shows an expenditure of Rs. 807 and Rs. 2,475 respectively. In Cuddapah 13 miles of road were made, in Kistna $8\frac{1}{4}$, on the Nílgiris $5\frac{1}{4}$. The tramway in Nellore carried 2,995 tons of wood at about 6 annas a ton. The cost by cart would have been Rs. 2-8-0. The Board agree with the Conservator in considering that very careful inquiry should be made before tramways are put up anywhere. He promises to pay attention to the subject in his tours. Good work was done in building houses in Ganjam, the Nílgiris and in Kurnool. The Board note that in next year the Conservator promises to give a list of all the Forest rest-houses. It is time this was done and a report made of the progress to date since the reorganization. In the South Circle good road work was done in Tinnevelly and North Arcot and several forest buildings were completed. The Conservator should in next year's report submit a list of houses similar to that promised by Mr. Gamble. The tramways in North Arcot carried 100 tons of firewood between October and January at the rate of $1\frac{1}{2}$ annas a mile. The tramway in Coimbatore will form the subject of a special report when Mr. Peet forwards an account of the work done by the Engineer sent from Messrs. Fowler and Co., Calcutta. The line has been a very difficult one to lay. The Board request that, in next year, the Conservator will submit a special form to furnish information as to the value of the tramways in the following form, giving the information separately for each line :—

Number of miles in working order.	Initial cost.	Amount expended up to date in maintenance and repair.	Amount of timber carried during the year.	Rate per mile.	Total receipts during the year.	Total receipts up to date.

21. *Yield and Working.*—The felling operations in the Northern Circle were much larger during the year under report than in the previous year, 96,831 trees being felled compared with 44,952 in 1887-88. In the Southern Circle 4,438 trees were felled; this was exclusive of bamboos which are included in the Northern Circle and were 77,808 in number. The following statement gives the total yield of the year in both circles. The Board hope to submit the value of the bamboos and minor produce on the receipt of the information from the Conservators:—

—	Timber.	Fuel.	Bamboo.	Minor produce maunds of 25 lbs. each.
	CUB. FT.	CUB. FT.	NO.	
By Government agency—				
Southern Circle	165,977	511,935	19,521	30,433
Northern do.	260,441	868,460	78,268	10,252
By purchasers—				
Southern Circle	1,266,812	7,779,800	6,183,415	1,353,497
Northern do.	1,442,261	6,249,532	4,672,432	3,151,897
By free grants—				
Southern Circle	7,824	640	17,154	896
Northern do.	35,631	14,818	130,050	..
Total .. { Southern Circle ..	1,440,013	8,292,375	6,220,090	1,384,826
Total .. { Northern do. ..	1,738,333	7,132,810	4,880,750	3,162,149

In the Northern Circle the red sanders felled wood in Cuddapah was not sold, owing to the District Forest-officer having refused the tenders offered as being too low. The Board are unable to agree with the Conservator in his remarks on this subject. When, owing to the presence of large stocks of red sanders in the market, the selling price falls considerably, the Board are decidedly of opinion that it is inexpedient to force a still further supply of the wood upon an already overloaded market by accepting offers at unduly low rates simply in order to effect sales and make a show of revenue. The Board consider that at such times it is better to refrain from disposing of the stock in hand and to hold it over until the market price resumes its normal rate. There is, in the Board's opinion, no force in Mr. Gamble's contention that "it is better and more dignified for the Government to sell its produce yearly at the market rate rather than keep it back on account of a depression." The Government are in no way bound to dispose of a valuable commodity at a loss when there is no demand for it, and in refraining from forcing sales the same course is observed as would be followed by any prudent merchant. It is not a question of dignity at all. In Ganjam the sales were also short owing to a falling off in demand. The value of timber sold from depôts and from the forests and of drift and confiscated wood by Government agency was Rs. 30,878, and the price of timber was nearly $4\frac{1}{2}$ annas a cubic foot. The fuel sold in the same way realised Rs. 61,995. The greater portion of the revenue comes from the Nilgiris (Rs. 17,561) and Nellore (Rs. 41,853). The total revenue from bamboos in the same way was Rs. 1,702, sandalwood Rs. 6,965, minor produce Rs. 9,356. Comparing results with former years, there is not much to notice except that the sales of timber fell off. In the Southern Circle the timber collected by Government agency and disposed of realised Rs. 1,27,847, the fuel Rs. 42,707, bamboos Rs. 1,649, sandalwood Rs. 10,564, and minor produce Rs. 65,477. The working of the year appears to have been satisfactory under this head. The rates charged for collections were low and the prices realised good.

The main revenue came as usual from produce removed by purchasers; the amount in the Northern Circle was Rs. 4,95,189 and in the Southern Rs. 6,30,430. In the Northern Circle there was a considerable increase of revenue in Bellary and Anantapur (viz., Rs. 10,430) due to *Tangedu* bark sales (*Cassia auriculata*). The Conservator gives some interesting information showing that the demand for the bark may fall off owing to superiority for tanning purposes of other barks common in this country. The Conservator has been directed to make a special report on the tangedu shrub and its treatment in the Ceded districts and elsewhere. The total increase in the Northern Circle over the amount received in the previous year was Rs. 51,285,

The increase was under every head except minor produce. This was also the case in the Southern Circle where the revenue realized was Rs. 19,180 in excess of the revised estimate and Rs. 26,850 in excess of the previous year's revenue. The rates remain about the same showing that the people do not pay more for the produce bought.

22. *Financial.*—The following statement shows the financial results of the year :—

	Revenue.	Expenditure.	
		A.	B.
	RS.	RS.	RS.
Southern Circle	8,98,086	4,08,269	3,33,863
Northern „	6,16,920	2,54,298	2,20,244
	15,15,006	6,62,567	5,54,107
		5,54,107	
		12,16,674	
Balance ...		2,98,332	

The balance amounted to Rs. 1,42,378 in the Northern Circle and Rs. 1,55,954 in the Southern. This result must be considered satisfactory.

In the Northern Circle the receipts exceeded the receipts of the previous year by Rs. 52,197. The increase is spread over almost every head except I.(*a*) where there was decrease owing to absence of sales in Cuddapah. The increase in grazing fees was moderate and was spread over almost every district. The receipts were Rs. 18,920 in excess of the revised estimate.

In the Southern Circle the receipts were Rs. 21,086 in excess of the revised estimate and Rs. 87,889 in excess of the receipts of the previous year. The excess was distributed over almost all the heads of revenue, excepting II (*e*) minor produce where a reduction in the receipts occurred. In South Coimbatore there was a falling off in receipts under timber I (*a*) and minor produce. The gross receipts increased considerably in North Arcot under timber I (*a*), and grazing II (*d*). In Madura there was a great increase in the receipts from minor produce.

In the Northern Circle the expenditure exceeded the expenditure of the previous year by Rs. 20,748 and exceeded the revised estimate by only Rs. 742, which is satisfactory. The deficits occur in the Nilgiris, Vizagapatam and Ganjam, and are explained by the Conservator.

In the Southern Circle the expenditure exceeded the actuals of the previous year by Rs. 67,409, and was less than the revised estimate by Rs. 9,068, which is an improvement on past years. The large increase in expenditure is due to purchase of a tramway for South Coimbatore and to the charges for Forest survey work done by the Government of India Survey party. All the districts showed a balance in their favor except South Coimbatore which showed a deficit owing to large expenditure on tramways. The Board congratulate the Conservators on the improvement shown as regards the accuracy of the estimates drawn up in last year. They hope that the improvement will continue.

23. The conduct of the subordinates during the year appears to have been on the whole satisfactory, though, in the Southern Circle there were some cases of misconduct on the part of Rangers. The District officers appear to have worked very energetically and well, and the Board are glad that their efforts have produced satisfactory results. Many of the officers require experience and are in charge of districts far too heavy for them. The Board in such cases must look to the Collectors closely supervising the work of their District Forest-officers, which it is feared in some cases is not done. The question of amending the forms of the cash accounts of the Forest offices has lately been considered and the Government have recently passed orders directing that the inspection of Forest offices should be more frequent than has hitherto been the case. The Board consider such inspections will be of great value.

24. The reports have been drawn up with care. The report of the Southern Circle is full and the figures accurate. In the Northern Circle, the Board have found some small discrepancies. In paragraph 43, forty miles of demarcation work are

said to have been done on the Veligondas, but in last year's report the boundary was said to have been complete all but fifteen miles. The expenditure on roads and bridges is said in paragraph 120 to have been Rs. 774 in Ganjam; it should apparently be Rs. 807 as per form 64. In paragraph 149, the figures relating to Ganjam do not tally with the figures in form 70. There are some discrepancies between the information given in form 59-A and that given in form 59-C. In forms 62 and 69 the information in one or two cases does not precisely tally with the information given regarding the same facts in the previous year's report. The report itself is full of interesting matter.

(True Copies and Extract.)

(Signed) M. HAMMICK,
Secretary.

To the Secretary to Government, Revenue Department,
with reports.
" Conservator of Forests, Northern Circle.
" " " Southern "
Copy to all Collectors, except Collector of Madras.
" to the Examiner of Forest Accounts.

READ— the following Proceedings of the Board of Revenue (Land Revenue), dated 10th October 1889, Forest No. 956, Mis. :—

MR. W. S. WHITESIDE.

Read—the following letter from the Conservator of Forests, Southern Circle, to the Secretary to the Commissioners of Land Revenue, dated 12th September 1889, No. 1750 :—

I have the honor to enclose two statements showing outturn of timber, &c., revised in accordance with instructions contained in Board's Proceedings, dated 5th September 1889, Forest No. 831, Mis.

Read—also the following letter from the Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated 18th September 1889, No. 1729 :—

Referring to Board's Proceedings, Forest No. 831, Mis., of the 5th September 1889, I have the honor to submit, herewith, the revised statements of outturn for 1886-87, 1887-88 and 1888-89.

Resolution—dated 10th October 1889, Forest No. 956, Mis.

Submitted to Government, with reference to G.O., dated 28th August 1889, No. 5519, and paragraph 21 of Board's Proceedings, dated 3rd September 1889, Forest No. 444.

2. The quantity of timber and fuel in Vizagapatam for 1888-89 has not been corrected with reference to the Conservator's letter No. 1495, dated 19th August 1889, in Board's Proceedings, dated 14th September 1889, Forest No. 85, Routine.

3. The necessary corrections have been made in this office.

(True Copies and Extract.)

(Signed) M. HAMMICK,
Secretary.

To the Secretary to Government, Revenue Department,
with copy of Board's Proceedings, dated 14th September 1889,
Forest No. 85, Routine, and five statements in original.
Copy to the Conservator of Forests, Northern Circle.
" " " Southern "

ENCLOSURES.

PROCEEDINGS of the Board of Revenue (Land Revenue), dated 14th September 1889, Forest No. 85, Routine.

MR. W. S. WHITESIDE.

Read—the following letter from the Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated 19th August 1889, No. 1495, and Reference thereon, dated 24th August 1889 :—

I have the honor to forward, for the information of the Board of Revenue, in continuation of my annual report for 1888-89, the return of free grants of the Northern division of Vizagapatam, only received to-day. It should be incorporated in appendix D, page 42, after "Ganjam," and the grand total of that return raised to 50,449 cubic feet—130,050 number—Rs. 7,985-9-6. The entries in the columns by free grants under "Vizagapatam" and "total" in the outturn statement given in paragraph 154 should now be altered to—

	Timber and fuel.	Total.	Bamboos.	Total.
Vizagapatam	27,680	348,860	83,550	312,706
Total	50,449	8,935,228	130,050	4,888,271

2. I regret much that I omitted to notice the non-submission of this return. I was under the impression that the appendix D prepared in my office was complete. I would venture to add to the remarks made in my paragraph 162 the suggestion that orders may be issued that free grants should, as in other districts, be only given in future by order of the Collector in his forest branch and not by Divisional officers direct.

The statement of free grants in the Northern division of the Vizagapatam district, received with the above, does not contain the information required for columns 2 to 6 of appendix *D* to the annual report. The Conservator of Forests, Northern Circle, is requested to furnish, as early as possible, a revised statement in the same form as appendix *D*.

Read—also the following letter from the Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated 28th August 1889, No. 1543 :—

With reference to Board's Forest Register No. 1343, of 24th August 1889, I have the honor to submit a revised statement of free grants for the North Vizagapatam district for 1888-89, as far as information is available, and to say that a reference to the Collector has been made for the information required for columns 4, 5 and 6.

Resolution—dated 14th September 1889, Forest No. 85, Routine.

Recorded, the corrections having been made in the copy of the report sent to Government.

(True Copies and Extract.)

(Signed) M. HAMMICK,
Secretary.

To the Conservator of Forests, Northern Circle.

1886-87.

Districts.	Outturn in Cubic Feet of Timber and Fuel.				Outturn of Minor Produce and Bamboos.			
	By Government agency.	By private purchasers.	By free grants.	Total.	By Government agency.	By private purchasers.	By free grants.	Total.
	C. FT.	C. FT.	C. FT.	C. FT.	RS.	RS.		RS.
Ganjam	37,815	953,980	..	991,795	123	3,891		4,014
Vizagapatam	30	116,040	90,000	206,070	..	1,099		1,099
Godávari	11,122	1,225,450		1,236,572	..	12,534		12,534
Kistna	1,670	2,019,540	Information not available.	2,021,210	..	15,009	Information not available.	15,009
Nellore	382,320	93,830		476,150	2,250	18,507		20,757
Cuddapah	95,700	2,039,900	9,250	2,144,850	178	42,546		42,724
Kurnool	250,677	791,940		1,042,617	..	15,991		15,991
Bellary	118,079	80,540		198,619	1,022	14,648		15,670
Anantapur	9,678	86,175		95,853	250	14,753		15,003
Nilgiris	348,631	119,920		468,551	10,020	2,585		12,605
Total ..	1,255,722	7,527,315	99,250	8,882,287	13,843	1,41,563	..	1,55,406

1887-88.

Districts.	Outturn of Timber.				Outturn of Minor Produce and Bamboos.			
	By Government agency.	By private purchasers.	By free grants.	Total.	By Government agency.	By private purchasers.	By free grants.	Total.
	C. FT.	C. FT.	C. FT.	C. FT.	RS.	RS.	RS.	RS.
Ganjam	53,197	1,299,325	18,220	1,370,742	10	4,202	110	4,322
Vizagapatam	..	182,450	48,400	230,850	..	1,603	2,384	3,987
Godávari	28,875	702,100	1,120	732,095	..	24,329	..	24,329
Kistna	2,891	939,375	..	942,266	3	11,607	2,000	13,610
Nellore	369,429	90,750	8,440	468,619	2,607	22,111	..	24,718
Cuddapah	113,313	1,899,400	11,500	2,024,213	1,513	46,455	305	48,273
Kurnool	9,550	1,156,500	1,650	1,167,700	56	19,929	38	20,023
Bellary	58,425	195,325	675	254,425	2,155	15,943	..	18,098
Anantapur	512	91,475	..	91,987	439	15,001	..	15,440
Nilgiris	367,507	123,725	1,510	492,742	6,306	2,547	..	8,853
Total ..	1,003,699	6,680,425	91,515	7,775,639	13,089	1,63,727	4,837	1,81,653

1888-89.

Districts.	Outturn in Cubic Feet, Timber and Fuel.					Outturn in Minor Produce and Bamboos.				
	By Government agency.	By private purchasers.	By drift and confiscated.	By free grants.	Total.	By Government agency.	By private purchasers.	By drift and confiscated.	By free grants.	Total.
						RS.	RS.	RS.	RS.	RS.
Ganjam	241,829	1,064,189	293	9,460	1,315,771	8	3,436	6	51	3,501
Vizagapatam ..	144	318,273	2,163	27,680	348,860	..	2,700	30	686	3,416
Godávari ..	4,869	597,214	17,869	558	620,510	..	24,317	31	..	24,348
Kistna	13,312	726,738	3,657	..	743,707	..	14,652	8	5,000	19,660
Nellore	237,291	79,670	280	3,900	321,141	4,186	5,700	..	..	9,886
Cuddapah ..	111,322	2,641,292	4,442	1,840	2,758,896	1,310	39,489	34	3	40,836
Kurnool	3,520	1,774,270	34,130	3,400	1,815,320	99	28,188	17	151	28,455
Bellary	95,737	321,792	240	480	418,249	1,670	25,585	25	..	27,280
Anantapur ..	2,015	84,773	282	1,947	89,017	228	23,416	861	..	24,504
Nilgiris	418,862	33,582	129	1,184	503,757	9,507	3,855	..	..	13,362
Total ..	1,128,901	7,691,793	64,085	50,449	8,935,228	17,008	1,71,337	1,012	5,891	1,95,248

Heads.	Timber.		Fuel.		Minor Produce including Bamboos.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	C. FT.	C. FT.	C. FT.	C. FT.	RS.	RS.
By Government agency	(a) 249,920	(b) 138,360	(c) 493,760	376,880	34,974	37,244
By purchasers	(d)1,051,972	1,108,440	7,290,520	5,999,040	2,39,234	3,00,041
Free grants	(d) 7,134	50,360	400	4,520	110	2,590
Total ..	1,309,026	1,297,160	7,784,680	6,380,440	2,74,318	3,39,875

(*a*) Includes confiscated timber and also sandalwood.

N.B.—Teak saplings which were merely returned in number in the annual report for 1886-87 have now been approximately converted into cubic feet.

(*b*) Includes sandalwood.

(*c*) Includes confiscated firewood and also saplings, poles, &c., sold as firewood and shown in numbers in the annual report for 1886-87, but now converted approximately into cubic feet.

(*d*) Actual quantity as ascertained from form No. 72 of annual report for 1886-87.

Note.—The figures for 1887-88 under "By purchasers" includes confiscated timber, &c.

Heads.	Timber including Sandalwood.		Fuel.		Minor Produce including Bamboos.	
	1887-88.	1888-89.	1887-88.	1888-89.	1887-88.	1888-89.
	C. FT.	C. FT.	C. FT.	C. FT.	RS.	RS.
By Government agency	138,360	(a) 165,977	376,880	511,935	37,244	67,126
,, purchasers	1,108,440	1,266,812	5,999,040	7,779,800	3,00,041	2,89,036
Free grants	50,360	7,824	4,520	640	2,590	319
Total ..	1,297,160	1,440,613	6,380,440	8,292,375	3,39,875	3,56,481

(a) Includes 623 cubic feet, being excess found on remeasurement of timber collected and taken to depôt in previous year.

ORDER—dated 13th December 1889, No. 989, Revenue.

Forest, No. 147.

The Administration reports of the two Conservators of Forests, together with the Board's review of them, were this year received by Government only eleven days after the date on which they are due. This is a great improvement and His Excellency in Council, while congratulating the Conservators and the Board on the success of their endeavours to ensure greater punctuality trusts that the serious delays of former years will not again be permitted to occur.

2. *Area of Forests.*—The extent of the various classes of forest under the control of the department and the changes that have taken place during the year are shown in the following table;—

Class of Forests.	Area on 31st March 1888		Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1889.	Remarks.
	As given in the report for 1887-88.	As since corrected.					
Northern Circle.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	SQ. MS.	
A. Reserved forests under Act V.	625	589	* 44	2	+ 42	631	* From D. The area of lands transferred from D to A is shown in form No. 59-C to be 22,818 acres, but the areas were corrected on transfer and the correct total is 28,072 acres.
B. Reserved forests under previous orders.	769	..	..	..	..	..	
C. Leased forests	199	135	..	..	..	135	
D. Reserved lands	6,364	6,338·5	† 138	‡ 54·6	+ 83·4	6,422	† 138 from F. ‡ 43·8 to A and 10·8 to F.
E. Other forests	..	..	§ 23	..	+ 23	23	§ From F.
F. Unreserved forests and waste lands.	..	..	..	..	..	..	
Total ..	7,957	7,062·5	205	56·6	+ 148·4	7,211	
Southern Circle.							
A. Reserved forests under Act V.	2,373	2,396	(a) 375	..	+ 375	2,771	(a) 375 from D.
B. Reserved forests under previous orders.	244	244	..	(b) 50	— 50	194	(b) 50 to D.
C. Leased forests	46	46	..	..	..	46	
D. Reserved lands	5,136	5,130	(c) 526	(d) 375	+ 151	5,281	(c) 50 from B, 166 from E and 310 from F. (d) 375 to A.
E. Other forests	1,250	1,250	(e) 368	(f) 166	+ 202	1,452	(e) 368 from F. (f) 166 to D.
F. Unreserved forests and waste lands.	..	..	..	..	..	..	
Total ..	9,049	9,066	1,269	591	+ 678	9,744	
Grand Total ..	17,006	16,128·5	1,474	647·6	+ 826·4	16,955	

The above figures are taken from the statements given in form 59, which in the case of the Southern Circle are complete and fully explained. The area of leased forests in that circle should, however, in future, be shown under that head instead of being distributed among reserved forests and reserved lands. This error was corrected in the review of the report for 1887-88 and should not have been repeated. The statements relating to the Northern Circle are deficient in some respects and require further explanation. The Board has pointed out the necessity for this in the case of the forests formerly entered in statement 59-B, but there are several other points to which the attention of the Conservator should be drawn. According to statement 59-A, the area transferred from D to A is 28,072 acres, but the total of the corresponding entries in statement 59-C is only 22,818 acres. The difference is apparently due to rectification of areas, but this should have been clearly shown and the corrections should have been made in both statements so that they may be in agreement with each other. Again in statement 59-C the cause of the addition or exclusion of areas is in many cases not stated. The Yellichetti dibba, Nachugunta, and Sorlagundi blocks in the Bandar range of the Kistna district, may be mentioned as instances. It has been assumed that in these and similar cases the changes are due to rectification of areas and not to actual addition or exclusion of lands. The extent of addition owing to this cause amounts to 28,231 acres and the total of the exclusions to 50,231 acres, the net result being decrease of 22,000 acres or 34·38 square miles.

The estimated area of unreserved lands in the Northern Circle has been omitted from the above table as the Government agrees with the Board that the whole of such lands cannot be considered to be under real control by the department.

The forests in the Agency tracts of Vizagapatam, which Mr. Gamble has entered in a subsidiary statement appended to form 59-A, should be shown under " E. Other forests."

The addition made to the area of reserved forests during the year was 44 square miles in the Northern and 375 square miles in the Southern Circle. The total (419 square miles) is considerably lower than the corresponding figures for 1886-87 (685 square miles) and 1887-88 (710 square miles). This result is unsatisfactory, but the matter will be noticed below under the head of settlement. The corrected area of forests of all kinds under the control of the department at the beginning of the year is 16,128 square miles against 17,006 square miles as given in the reports for 1887-88. During the year this extent was raised by more than 800 square miles and on the 31st March 1889 it stood at 16,955 square miles. The great difference between the original and the revised figures is chiefly due to the entire omission from the latter of the area shown under B in the Northern Circle. The probability that the entries under this head were erroneous was noticed by the Government in the Review of the Report for 1887-88.

3. The Acting Conservator of the Southern Circle has made an attempt to estimate the additions which may hereafter be made to the forest area, but until the detailed district reports are received, the Government cannot express any opinion on the accuracy of this forecast. These reports are at last beginning to reach Government and it may be hoped that in a short time the area to be brought under control in each district will be more or less finally determined.

4. *Settlement.*—The smallness of the addition made to the extent of reserved forests has been noticed above. The area notified under section 16 of the Act amounted to only 419 square miles, but in addition to this 3,199 square miles in the Northern Circle and 1,189 square miles in the Southern Circle were settled and reported upon and 1,138 square miles were settled, but for this area no reports had been received up to the close of the year. The Board ascribes the delay between the submission of report and the issue of the notification to the errors which are found in the draft notifications drawn up by the Settlement-officers, thus entailing their being detained a long time in the Board's office for correction. This was mainly due to the inadequacy of the establishment available for the examination of the settlement records; but this cause has now been removed and His Excellency in Council trusts that the large arrears will soon be disposed of. A special report on the state of the work in the Board's office on the 31st December next should be submitted to the Government before the 31st January 1890.

In paragraph 6 of his report, the Conservator, Southern Circle, gives the area finally settled and notified during 1888-89 as 398 square miles; but this is the net addition made to the area of reserved forests and 23 square miles of it are due to correction of areas. The area settled and notified is 375 square miles.

5. The attention of the Government of India will be invited to the apparent inaccuracy of the foot-note to the statement given in paragraph 4 of Sir E. C. Buck's letter of the 15th June 1889, No. 585-F. The following statement gives all necessary information:—

Circle.	Unreserved forest area, 1st April 1888.	Added during year (net).	Total.	Area notified under section 4, 1st April 1888.	Added during year.	Notified under section 16, during year.	Balance notified under section 4, but unsettled.	Total unreserved area on 31st March 1889.
1	2	3	4	5	6	7	8	9
Southern Circle	6,624	303	6,927	2,323	739	375	2,687	6,927
Northern ,, ...	6,330	115	6,445	6,158	138	44	6,252	6,445

Note.—Column 2 gives the area of all forests under the control of the department other than reserved and leased forests.

6. *Demarcation, Survey and Working Plans.*—The length of boundary demarcated during the year was slightly more than in 1887-88, but this advance is the net result of an increase in the Northern and a decrease in the Southern Circle.* Mr. Gamble has nowhere given the total length of line demarcated in his circle, and it is not clear how the Board's figure was obtained, as the work done in Ganjam is not completely stated and it is thus impossible to find the total by adding the figures for each district. The outturn in the Southern Circle is not satisfactory, and His Excellency in Council regrets to find that the survey officers complain of the badness of the work done in this circle in previous years. The total expenditure was Rs. 39,249, which gives an average rate per mile of Rs. 11-8-10. The rate in the Southern Circle was considerably higher than in 1887-88, but in the Northern Circle there was a decrease of about 24 per cent.† It is obvious that the cost of forest demarcation must vary greatly with the nature of each particular block, but the Government is of opinion that the rates in the Northern Circle are still too high, and desires that endeavours may be made to reduce them. The high cost in Kistna and Godávari is particularly noticeable. With reference to the remark of the Board that "demarcation is obviously work, the cost of which can be made as heavy or as light as is required," the Government would point out that the object of demarcation is to obtain a clearly defined boundary capable of being easily surveyed, and any work which goes beyond this is unnecessary. Stone-walls, for example, are not required for the purposes of demarcation, which must not be confused, as the Board and Mr. Gamble seem inclined to confuse it, with fencing; the latter may in itself be desirable, but it is in most cases a work which can wait, and except in special cases, time and money had better not be expended on it until the reserves are settled, demarcated and surveyed.

——	1886-87.	1887-88.	1888-89.
	MS.	MS.	MS.
* Northern Circle ..	1,003	1,645	1,828
Southern ,, ..	1,134	1,701	1,572
Total ..	2,137	3,346	3,400

	1887-88.	1888-89.
	RS. A. P.	RS. A. P.
† Northern Circle	16 8 9	12 9 9
Southern ,, ...	6 13 2	10 4 10

7. The information regarding the survey operations conducted by the Survey of India Party is not sufficiently full, and the Government desires that the Board will request the Deputy Superintendent to furnish a brief report showing the amount of work done and such details of cost as are available, together with a forecast of the outturn during the present year. Information is also required as to the manner in which the total expenditure is debited, and in this connection the Board's attention is invited to G.O., dated 27th November 1888, No. 831, Revenue. The Superintendent, Madras Survey, should submit a short report on the forest surveys carried out by his department, with particulars of cost so far as these can be obtained without difficulty.

As regards departmental surveys, the Government has nothing to add to the remarks made in the Review of the Report for 1887-88. Comparatively little work of this kind was attempted and the expenditure was small,* but unless the survey is accurate it is almost useless, and the money could be utilised more profitably in other ways.

	Rs.
* Northern Circle	1,613
Southern ,, ...	5,861

8. *Protection.*—The area under special fire-protection shows a satisfactory advance, accompanied by a reduction in the rate of expenditure † which fell to Rs. 10·8 per square mile. This is not a high rate, the average for all provinces, excluding Bombay, being Rs. 16 per square mile in 1886-87. The following table affords information regarding the rate in each district and the measure of success which attended the efforts to prevent fires :—

—	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.
	Sq. Ms.	Sq. Ms.	Sq. Ms.	Sq. Ms.	Sq. Ms.
† Northern Circle	720	728	1,168	1,320	1,667
Southern ,, ...	744	906	1,081	1,250	1,502
Total ..	1,464	1,634	2,249	2,570	3,169
	Rate per square mile.				
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	15	9·10	10·16	10·95	8·53
Southern ,, ...	15·33	12·67	15·54	16·57	13·35
Total ..	15·17	11·08	12·75	13·70	10·8

Northern Circle.

District.	Rate per sq. mile.	Percentage unsuccessful.
	Rs.	
Ganjam	1·37	6·72
Vizagapatam	?	0·33
Godávari	2·07	17 35
Kistna	11·67	0·16
Nellore	6·85	8·6
Cuddapah	12·49	5·52
Kurnool	24 35	33·07
Bellary	22·67	16·98
Anantapur	20·34	2·22
Nílgiris	9·86	37·11

Southern Circle.

District.	Rate per sq. mile.	Percentage unsuccessful.
	Rs.	
Chingleput	16·48	0·03
North Arcot	3·74	0·65
South Arcot	5·51	0·70
Salem	45·08	0·00
Trichinopoly	2·77	0·22
Tanjore	...	....
Coimbatore	21·28	0·71
Madura	15·68	0·35
Tinnevelly	33 61	0·67
Malabar	32·34	46 44
South Canara	30·30	0·04

The great variations in cost which this statement discloses indicate that further examination of the expenditure is required. The rate per square mile is higher in the Southern than in the Northern Circle, and operations were much more successful in the former than in the latter, the percentage of failures being 3 and 4 respectively. The Government is not prepared to say that the greater measure of success is due to the higher expenditure, but the matter is one which should engage the attention of the Conservator of the Northern Circle. The results for the Southern Circle were very satisfactory in every district except Malabar, and here the failure was in part due to neglect; in the Northern Circle the percentage burnt was high in Nílgiris, Kurnool, Godávari and Bellary.

—	1886-87.	1887-88.	1888-89.
‡ Northern Circle ..	1,234	1,456	1,733
Southern ,, ..	1,339	1,644	2,201
Total ..	2,573	3,099	3,934

9. There was again an increase in the number of forest offences reported during the year, ‡ but the Governor in Council is glad to notice that this was accompanied by a high percentage of convictions.§ This satisfactory proportion, however, is not found in the case of all districts and it would be well if the Board examined

	1887-88. Per cent.	1888-89. Per cent.
§ Northern Circle	76	80
Southern ,, ...	86	84
	81	82

the statistics more in detail and not merely by circles. The number of cases compounded shows a considerable advance * and the Government trusts that this method of dealing with infringements of the Forest laws may be extended in the case of offences of a petty nature. Separate orders will be issued on the subject of a uniform procedure, but His Excellency in Council desires to observe here that the remarks of the Board have his entire concurrence. The number of cases reported varied from 681 in Trichinopoly and 610 in Salem to 24 in the Nílgiris and 9 in Chingleput. Without detailed inquiries it is impossible to say whether the smaller numbers show better guarding or bad detection, but as settlement proceeds and forest operations become more concentrated it should be possible to prevent offences without much difficulty and His Excellency in Council hopes that the number of the breaches of the law will gradually diminish.

—	1886-87.	1887-88.	1888-89.
* Northern Circle ..	240	205	427
Southern ,, ..	460	581	897
* Total ..	700	786	1,324

10. *Grazing.*—The receipts from grazing fees increased from Rs. 1,05,811 to Rs. 1,29,855, but in spite of this increase it is evident from the reports that grazing is still allowed free over a large extent of forest lands while the fees which were charged were very moderate. The Governor in Council notices with approval the attempt which was made in North Arcot to induce the ryots to use hay and he desires that the progress of this experiment may be mentioned in the report for the current year. As has been frequently pointed out, the presence of cattle is antagonistic to good forestry, but if cattle owners can be induced to cut and remove the grass, the advantages to them will be even greater than if their animals are allowed to graze, while so far as experience goes, little, if any, harm is done to the forests. With reference to the remarks of the Board of Revenue on this subject, His Excellency in Council would observe that it is undesirable to impose restrictions on grazing too rapidly, and that many of the forests are more needed for pasture grounds than for the growth of forest.

11. *Reproduction.*—On the subject of *natural reproduction* the Government has nothing to add to the observations of the Board and the remarks made in the Review of the Report for 1887-88. The expenditure on *artificial reproduction* amounted to Rs. 32,814 in the Southern Circle and Rs. 17,934 in the Northern, against Rs. 29,968 and Rs. 19,634 respectively in 1887-88. The bulk of the expenditure was as usual on the teak plantations at Nilambúr and the blue-gum plantations on the Nílgiris.

12. *Exotics.*—The special appendices on the subject of experiments with exotics show that most favorable results have been obtained with the date-palm. The sowings of the seed of bazaar fruits were successful in the Southern Circle, but the only reference to seed of this description in Mr. Gamble's report is a statement that it did not germinate in Cuddapah. It has been conclusively proved that the *eucalyptus* cannot be grown in the plains except perhaps at an expenditure which is prohibitive. The mahogany did well in Chingleput and North and South Arcot and at the foot of the Nílgiris, but in the Wynaad the results were disappointing, and the District Forest-officer of Trichinopoly fears that that district is not suited to it. The experiments with giant bamboos were most encouraging.

13. *Communications and Buildings.*—The expenditure on roads, buildings and other works was Rs. 59,841, and there was not the great divergence between the actuals and the revised estimate that has occurred in previous years. The increase in the expenditure under this head † is matter for satisfaction, provided the money was well spent, as there remains much to be done in the way of making roads and building rest-houses. The tramway in Nellore continued to work successfully, and that newly laid in North Arcot gave most satisfactory results. The account which Mr. Peet gives of the difficulties met with in laying the seven miles of line obtained for South Coimbatore will be interesting and instructive to Forest officers of other districts.

	Rs.
† 1886-87	51,719
1887-88	54,854
1888-89	59,841

14. *Yield and Working.*—The following table gives particulars of the yield of the forests during the last three years:—

Northern Circle.

	1886-87.	1887-88.	1888-89.
	C. FT.	C. FT.	C. FT.
Timber and fuel	8,882,287	7,775,639	8,935,228
	RS.	RS.	RS.
Bamboos and minor produce ...	1,55,406	1,81,653	1,92,458

Southern Circle.

	C. FT.	C. FT.	C. FT.
Timber and fuel	9,093,706	7,677,600	9,732,988
	RS.	RS.	RS.
Bamboos and minor produce ...	2,74,318	3,39,875	3,56,481

The recovery made in 1888-89 gives ground for satisfaction, but it is observed that in the districts of Kistna, Godávari and Nellore there has been a steady decrease, and that this was especially high in the first-mentioned district. The statement for the Southern Circle does not give particulars of districts,* in that for the Northern Circle timber and fuel are not shown separately, while in the case of both circles, bamboos and other minor produce are lumped together. Again for the Southern Circle the figure given as the value of the minor produce is the sum of the receipts under I (*c*) and I (*e*) for Government agency, and under II (*c*) and II (*e*) for produce removed by private consumers, but this is not so in the case of the Northern Circle. In these respects the statements require amendment and explanation, but they are an improvement upon the statistics hitherto furnished.

—	1886-87.	1887-88.	1888-89.
	C. FT.	C. FT.	C. FT.
* Kistna	2,021,210	942,266	743,707
Godávari	1,236,572	732,095	620,510
Nellore	476,150	468,619	321,141

The bulk of the produce was removed by private agency, but considerable departmental work was done in the Northern Circle in respect of timber and fuel and in the Southern Circle in the case of minor produce:—

—	Northern Circle.		Southern Circle.	
	Government agency.	Private agency.	Government agency.	Private agency.
	C. FT.	C. FT.	C. FT.	C. FT.
1886-87	1,255,722	7,527,315	743,680	8,342,492
1887-88	1,003,699	6,680,425	515,240	7,107,480
1888-89	1,128,901	7,691,793	677,912	9,046,612
	Minor produce.			
	RS.	RS.	RS.	RS.
1886-87	13,843	1,41,563	34,974	2,39,234
1887-88	13,089	1,63,727	37,244	3,00,041
1888-89	17,008	1,71,337	67,126	2,89,036

The cost of extracting timber and firewood was higher in the Southern than in the Northern Circle; the difference may possibly be due in part to different systems of account, and the figures which have been taken for the expenditure, include the cost of taking out charcoal so that the rates are not quite accurate. The matter, however, deserves attention and further inquiry should be made by the Board and Conservators. The table shows that there was improvement in both circles in the year to which the report relates:—

	1887-88. Cubic feet.	1888-89. Per rupee.
Northern Circle	15·00	15·33
Southern „	8·15	11·04

Again in the case of bamboos and minor produce the ratio between the charges and the value of the produce taken out was higher in the Southern than in the Northern Circle.* It is not possible to make the same detailed comparison for timber and other produce removed by private agency, but here also the cost of working seems to be lower in the Northern than in the Southern Circle, the percentages of total charges to receipts being 5·77 and 7·39 respectively.

	PER CENT.
* Northern Circle	29·89
Southern ,, ...	52·08

The value of the free grants made during the year was Rs. 9,366,† but this includes two items, amounting to Rs. 5,000, in Kistna, which seem to be mere estimates of doubtful accuracy.‡ The Board should call for further report regarding them.

	RS.
† Northern Circle	7,986
Southern ,, ...	1,380
Total ..	9,366

‡ *Vide* appendix D to Northern Circle Conservator's report.

15. *Financial Results.*—The financial results of the year's working are very satisfactory, the surplus revenue being nearly three lakhs of rupees. In the following table the figures for 1888-89 are compared with those of the previous year:—

	Northern Circle.		Southern Circle.		Total.	
	1887-88.	1888-89.	1887-88.	1888-89.	1887-88.	1888-89.
	RS.	RS.	RS.	RS.	RS.	RS.
Receipts	5,64,723	6,16,920	8,10,197	8,98,086	13,74,920	15,15,006
Charges	4,53,794	4,74,542	6,74,723	7,42,132	11,28,517	12,16,674
Surplus	1,10,929	1,42,378	1,35,474	1,55,954	2,46,403	2,98,332
Percentage	+ 24	+ 30	+ 20	+ 21	+ 22	+ 24·5

The revised estimates framed by the Conservators and the Board and those adopted by the Government are given below:—

	Conservator.	Board.	Government.
Northern Circle—	RS.	RS.	RS.
Receipts	6,11,700	6,15,500	5,98,000
Charges	5,02,700	4,89,200	4,73,800
Southern Circle—			
Receipts	9,35,000	9,35,000	8,77,000
Charges	8,30,000	8,11,000	7,51,200

In the Southern Circle there was a large increase in the amount of outstanding revenue which was at the end of the year Rs. 18,921, while in the Northern Circle it was only Rs. 3,810, the figures for the previous year being 10,000 and Rs. 3,732 respectively. The outstandings due to the department by contractors and disbursers were Rs. 11,624 in the Northern and Rs. 21,513 in the Southern Circle.

16. *General.*—The Government is glad to find that the Northern Circle report is more free from inaccuracies than in previous years, but there is still room for improvement, and it should be considered by both Conservators whether it is not possible to reduce the size of their reports or of the appendices. The Government doubts, for example, whether it is necessary to show every block and every tope in these forms, and is inclined to the opinion that an abstract with the district as the unit would answer all useful purposes.

17. In conclusion His Excellency in Council desires to express his appreciation of the good work done during the year. Although the superior staff was undoubtedly inadequate for the charge of so large an extent of forests, yet the area under control was increased by over 800 square miles and a larger proportion of it was put under special protection, while the outturn of both timber and minor produce made a considerable advance and the sales yielded a larger surplus revenue than has ever yet been obtained. The progress made with the notification of reserved forests was not so satisfactory as

could have been wished, but for this the Forest officers were not entirely responsible. Much of the delay in the Board's office arises from the careless way in which notifications are sent in by District Forest-officers requiring an immense amount of revision. Altogether the excellent results obtained show that the prospects of Forest administration in this Presidency are most hopeful; but a larger staff is imperatively necessary and there can be little doubt that an addition to the number of controlling officers would prove remunerative as well as advantageous to the forests.

(True Extract.)

(Signed) J. GROSE,
Ag. Secretary to Government.

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